

new/usr/src/cmd/cmd-inet/usr.lib/wanboot/p12split/Makefile

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1265 Fri May 16 10:29:50 2014

new/usr/src/cmd/cmd-inet/usr.lib/wanboot/p12split/Makefile

4853 illumos-gate is not lint-clean when built with openssl 1.0

Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>

Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>

\*\*\*\*\*

```
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25 include ../Makefile.com

27 PROG=          p12split
28 LDLIBS +=      -lwanboot -linetutil -lwanbootutil
28 LDLIBS +=      -lwanboot -linetutil -lwanbootutil -lcrypto
29 CPPFLAGS +=    -I$(CMNCRYPTDIR)

31 # libcrypto has no lint library, so we can only include this while building
32 $(PROG) := LDLIBS += -lcrypto

34 LINTFLAGS +=   -erroff=E_NAME_USED_NOT_DEF2
35 #endif /* ! codereview */

37 all:           $(PROG)

39 install:       all $(ROOTCMD)

41 clean:

43 lint:          lint_PROG

45 include ../../../../Makefile.targ
```

```

*****
15474 Fri May 16 10:29:50 2014
new/usr/src/cmd/cmd-inet/usr.lib/wanboot/pl2split/pl2split.c
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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22 /*
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25 */
27 #pragma ident "%Z%M% %I% %E% SMI"

27 #include <stdio.h>
28 #include <libintl.h>
29 #include <locale.h>
30 #include <sys/types.h>
31 #include <sys/stat.h>
32 #include <sys/wanboot_impl.h>
33 #include <unistd.h>
34 #include <string.h>
35 #include <libinetutil.h>
36 #include <wanbootutil.h>

38 #include <openssl/crypto.h>
39 #include <openssl/buffer.h>
40 #include <openssl/bio.h>
41 #include <openssl/err.h>
42 #include <openssl/x509.h>
43 #include <openssl/x509v3.h>
44 #include <openssl/pkcs12.h>
45 #include <openssl/evp.h>
46 #include <pl2aux.h>

48 static boolean_t verbose = B_FALSE; /* When nonzero, do in verbose mode */

50 /* The following match/cert values require PKCS12 */
51 static int matchty; /* Type of matching do to on input */
52 static char *k_matchval; /* localkeyid value to match */
53 static uint_t k_len; /* length of k_matchval */

55 #define IO_KEYFILE 1 /* Have a separate key file or data */
56 #define IO_CERTFILE 2 /* Have a separate cert file or data */
57 #define IO_TRUSTFILE 4 /* Have a separate trustanchor file */

```

```

59 static char *input = NULL; /* Consolidated input file */
60 static char *key_out = NULL; /* Key file to be output */
61 static char *cert_out = NULL; /* Cert file to be output */
62 static char *trust_out = NULL; /* Trust anchor file to be output */
63 static uint_t outfiles; /* What files are there for output */
64 static char *progname;

66 /* Returns from time_check */
67 typedef enum {
68     CHK_TIME_OK = 0, /* Cert in effect and not expired */
69     CHK_TIME_BEFORE_BAD, /* not_before field is invalid */
70     CHK_TIME_AFTER_BAD, /* not_after field is invalid */
71     CHK_TIME_IS_BEFORE, /* Cert not yet in force */
72     CHK_TIME_HAS_EXPIRED /* Cert has expired */
73 } time_errs_t;
    unchanged_portion_omitted

219 static int
220 do_certs(void)
221 {
222     char *bufp;
223     STACK_OF(X509) *ta_in = NULL;
224     EVP_PKEY *pkey_in = NULL;
225     X509 *xcert_in = NULL;

227     sunw_crypto_init();

229     if (read_files(&ta_in, &xcert_in, &pkey_in) < 0)
230         return (-1);

232     if (verbose) {
233         if (xcert_in != NULL) {
234             (void) printf(gettext("\nMain cert:\n"));

236             /*
237              * sunw_subject_attrs() returns a pointer to
238              * memory allocated on our behalf. The same
239              * behavior is exhibited by sunw_issuer_attrs().
240              */
241             bufp = sunw_subject_attrs(xcert_in, NULL, 0);
242             if (bufp != NULL) {
243                 (void) printf(gettext(" Subject: %s\n"),
244                     bufp);
245                 OPENSSL_free(bufp);
246             }

248             bufp = sunw_issuer_attrs(xcert_in, NULL, 0);
249             if (bufp != NULL) {
250                 (void) printf(gettext(" Issuer: %s\n"), bufp);
251                 OPENSSL_free(bufp);
252             }

254             (void) sunw_print_times(stdout, PRNT_BOTH, NULL,
255                 xcert_in);
256         }

258         if (ta_in != NULL) {
259             X509 *x;
260             int i;

262             for (i = 0; i < sk_X509_num(ta_in); i++) {
263                 /* LINTED */
264                 x = sk_X509_value(ta_in, i);
265                 (void) printf(
                gettext("\nTrust Anchor cert %d:\n"), i);

```

```

267         /*
268         * sunw_subject_attrs() returns a pointer to
269         * memory allocated on our behalf. We get the
270         * same behavior from sunw_issuer_attrs().
271         */
272         bufp = sunw_subject_attrs(x, NULL, 0);
273         if (bufp != NULL) {
274             (void) printf(
275                 gettext(" Subject: %s\n"), bufp);
276             OPENSSL_free(bufp);
277         }
278
279         bufp = sunw_issuer_attrs(x, NULL, 0);
280         if (bufp != NULL) {
281             (void) printf(
282                 gettext(" Issuer: %s\n"), bufp);
283             OPENSSL_free(bufp);
284         }
285
286         (void) sunw_print_times(stdout, PRNT_BOTH,
287             NULL, x);
288     }
289 }
290
291
292 check_certs(ta_in, &xcert_in);
293 if (xcert_in != NULL && pkey_in != NULL) {
294     if (sunw_check_keys(xcert_in, pkey_in) == 0) {
295         wbku_printerr("warning: key and certificate do "
296             "not match\n");
297     }
298 }
299
300 return (write_files(ta_in, xcert_in, pkey_in));
301 }

```

unchanged portion omitted

```

354 static void
355 check_certs(STACK_OF(X509) *ta_in, X509 **c_in)
356 {
357     X509 *curr;
358     time_errs_t ret;
359     int i;
360     int del_expired = (outfiles != 0);
361
362     if (c_in != NULL && *c_in != NULL) {
363         ret = time_check_print(*c_in);
364         if ((ret != CHK_TIME_OK && ret != CHK_TIME_IS_BEFORE) &&
365             del_expired) {
366             (void) fprintf(stderr, gettext(" Removing cert\n"));
367             X509_free(*c_in);
368             *c_in = NULL;
369         }
370     }
371
372     if (ta_in == NULL)
373         return;
374
375     for (i = 0; i < sk_X509_num(ta_in); ) {
376         /* LINTED */
377         curr = sk_X509_value(ta_in, i);
378         ret = time_check_print(curr);
379         if ((ret != CHK_TIME_OK && ret != CHK_TIME_IS_BEFORE) &&
380             del_expired) {
381             (void) fprintf(stderr, gettext(" Removing cert\n"));

```

```

385         /* LINTED */
386         curr = sk_X509_delete(ta_in, i);
387         X509_free(curr);
388         continue;
389     }
390     i++;
391 }

```

unchanged portion omitted

```

521 static int
522 do_ofile(char *name, EVP_PKEY *pkey, X509 *cert, STACK_OF(X509) *ta)
523 {
524     STACK_OF(EVP_PKEY) *klist = NULL;
525     STACK_OF(X509) *clist = NULL;
526     PKCS12 *p12 = NULL;
527     int ret = 0;
528     FILE *fp;
529     struct stat sbuf;
530
531     if (stat(name, &sbuf) == 0 && !S_ISREG(sbuf.st_mode)) {
532         wbku_printerr("%s is not a regular file\n", name);
533         return (-1);
534     }
535
536     if ((fp = fopen(name, "w")) == NULL) {
537         wbku_printerr("cannot open output file %s", name);
538         return (-1);
539     }
540
541     if ((clist = sk_X509_new_null()) == NULL ||
542         (klist = sk_EVP_PKEY_new_null()) == NULL) {
543         wbku_printerr("out of memory\n");
544         ret = -1;
545         goto cleanup;
546     }
547
548     if (cert != NULL && sk_X509_push(clist, cert) == 0) {
549         wbku_printerr("out of memory\n");
550         ret = -1;
551         goto cleanup;
552     }
553
554     if (pkey != NULL && sk_EVP_PKEY_push(klist, pkey) == 0) {
555         wbku_printerr("out of memory\n");
556         ret = -1;
557         goto cleanup;
558     }
559
560     p12 = sunw_PKCS12_create(WANBOOT_PASSPHRASE, klist, clist, ta);
561     if (p12 == NULL) {
562         wbku_printerr("cannot create %s: %s\n", name, cryptoerr());
563         ret = -1;
564         goto cleanup;
565     }
566
567     if (i2d_PKCS12_fp(fp, p12) == 0) {
568         wbku_printerr("cannot write %s: %s\n", name, cryptoerr());
569         ret = -1;
570         goto cleanup;
571     }
572
573 cleanup:
574     (void) fclose(fp);
575     if (p12 != NULL)
576         PKCS12_free(p12);

```

```
577  /*
578  * Put the cert and pkey off of the stack so that they won't
579  * be freed two times. (If they get left in the stack then
580  * they will be freed with the stack.)
581  */
582  if (clist != NULL) {
583      if (cert != NULL && sk_X509_num(clist) == 1) {
584          /* LINTED */
585          (void) sk_X509_delete(clist, 0);
586      }
587      sk_X509_pop_free(clist, X509_free);
588  }
589  if (klist != NULL) {
590      if (pkey != NULL && sk_EVP_PKEY_num(klist) == 1) {
591          /* LINTED */
592          (void) sk_EVP_PKEY_delete(klist, 0);
593      }
594      sk_EVP_PKEY_pop_free(klist, sunw_evpcpkey_free);
595  }
596  return (ret);
597 }
598 unchanged_portion_omitted
```

new/usr/src/cmd/cmd-inet/usr.lib/wanboot/wanboot-cgi/Makefile

1

```
*****
1236 Fri May 16 10:29:50 2014
new/usr/src/cmd/cmd-inet/usr.lib/wanboot/wanboot-cgi/Makefile
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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25 include ../Makefile.com

27 PROG = wanboot-cgi
28 LDLIBS += -lgen -lnsl -lwanbootutil -lnvpair -lwanboot
28 LDLIBS += -lgen -lnsl -lwanbootutil -lnvpair -lwanboot -lcrypto
29 CPPFLAGS += -I$(CMNCRYPTDIR)

31 # libcrypto has no lint library, so we can only include this while building
32 $(PROG) := LDLIBS += -lcrypto
33 #endif /* ! codereview */

35 all: $(PROG)

37 install: all $(ROOTCMD)

39 clean:

41 lint: lint_PROG

43 include ../../../../Makefile.targ
```

```

*****
45017 Fri May 16 10:29:51 2014
new/usr/src/cmd/cmd-inet/usr.lib/wanboot/wanboot-cgi/wanboot-cgi.c
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
*****
_____unchanged_portion_omitted_____

773 /*
774 * Add the certs found in the trustfile found in path (a trust store) to
775 * the file found at bootfs_dir/truststore. If necessary, create the
776 * output file.
777 */
778 static int
779 build_trustfile(const char *path, void *truststorepath)
780 {
781     int             ret = WBCGI_FTW_CBERR;
782     STACK_OF(X509) *i_anchors = NULL;
783     STACK_OF(X509) *o_anchors = NULL;
784     char            message[WBCGI_MAXBUF];
785     PKCS12          *p12 = NULL;
786     FILE            *rfp = NULL;
787     FILE            *wfp = NULL;
788     struct stat     i_st;
789     struct stat     o_st;
790     X509            *x = NULL;
791     int             errtype = 0;
792     int             wfd = -1;
793     int             chars;
794     int             i;

796     if (!WBCGI_FILE_EXISTS(path, i_st)) {
797         goto cleanup;
798     }

800     if (WBCGI_FILE_EXISTS((char *)truststorepath, o_st)) {
801         /*
802          * If we are inadvertently writing to the input file.
803          * return success.
804          * XXX Pete: how can this happen, and why success?
805          */
806         if (i_st.st_ino == o_st.st_ino) {
807             ret = WBCGI_FTW_CBCONT;
808             goto cleanup;
809         }
810         if ((wfp = fopen((char *)truststorepath, "r+")) == NULL) {
811             goto cleanup;
812         }
813         /*
814          * Read what's already there, so that new information
815          * can be added.
816          */
817         if ((p12 = d2i_PKCS12_fp(wfp, NULL)) == NULL) {
818             errtype = 1;
819             goto cleanup;
820         }
821         i = sunw_PKCS12_parse(p12, WANBOOT_PASSPHRASE, DO_NONE, NULL,
822             0, NULL, NULL, NULL, &o_anchors);
823         if (i <= 0) {
824             errtype = 1;
825             goto cleanup;
826         }

828         PKCS12_free(p12);
829         p12 = NULL;

```

```

830     } else {
831         if (errno != ENOENT) {
832             chars = sprintf(message, sizeof(message),
833                 "(error accessing file %s, error %s)",
834                 path, strerror(errno));
835             if (chars > 0 && chars < sizeof(message))
836                 print_status(500, message);
837             else
838                 print_status(500, NULL);
839             return (WBCGI_FTW_CBERR);
840         }
841     }
842     /*
843     * Note: We could copy the file to the new trustfile, but
844     * we can't verify the password that way. Therefore, copy
845     * it by reading it.
846     */
847     if ((wfd = open((char *)truststorepath,
848         O_CREAT|O_EXCL|O_RDWR, 0700)) < 0) {
849         goto cleanup;
850     }
851     if ((wfp = fdopen(wfd, "w+")) == NULL) {
852         goto cleanup;
853     }
854     o_anchors = sk_X509_new_null();
855     if (o_anchors == NULL) {
856         goto cleanup;
857     }
858     }

860     if ((rfp = fopen(path, "r")) == NULL) {
861         goto cleanup;
862     }
863     if ((p12 = d2i_PKCS12_fp(rfp, NULL)) == NULL) {
864         errtype = 1;
865         goto cleanup;
866     }
867     i = sunw_PKCS12_parse(p12, WANBOOT_PASSPHRASE, DO_NONE, NULL, 0, NULL,
868         NULL, NULL, &i_anchors);
869     if (i <= 0) {
870         errtype = 1;
871         goto cleanup;
872     }
873     PKCS12_free(p12);
874     p12 = NULL;

876     /*
877     * Merge the two stacks of pkcs12 certs.
878     */
879     for (i = 0; i < sk_X509_num(i_anchors); i++) {
880         /* LINTED */
881         x = sk_X509_delete(i_anchors, i);
882         (void) sk_X509_push(o_anchors, x);
883     }

884     /*
885     * Create the pkcs12 structure from the modified input stack and
886     * then write out that structure.
887     */
888     p12 = sunw_PKCS12_create((const char *)WANBOOT_PASSPHRASE, NULL, NULL,
889         o_anchors);
890     if (p12 == NULL) {
891         goto cleanup;
892     }
893     rewind(wfp);
894     if (i2d_PKCS12_fp(wfp, p12) == 0) {

```

```

895         goto cleanup;
896     }

898     ret = WBCGI_FTW_CBCONT;
899 cleanup:
900     if (ret == WBCGI_FTW_CBERR) {
901         if (errtype == 1) {
902             chars = snprintf(message, sizeof (message),
903                 "(internal PKCS12 error while copying %s to %s)",
904                 path, (char *)truststorepath);
905         } else {
906             chars = snprintf(message, sizeof (message),
907                 "(error copying %s to %s)",
908                 path, (char *)truststorepath);
909         }
910         if (chars > 0 && chars <= sizeof (message)) {
911             print_status(500, message);
912         } else {
913             print_status(500, NULL);
914         }
915     }
916     if (rfp != NULL) {
917         (void) fclose(rfp);
918     }
919     if (wfp != NULL) {
920         /* Will also close wfd */
921         (void) fclose(wfp);
922     }
923     if (p12 != NULL) {
924         PKCS12_free(p12);
925     }
926     if (i_anchors != NULL) {
927         sk_X509_pop_free(i_anchors, X509_free);
928     }
929     if (o_anchors != NULL) {
930         sk_X509_pop_free(o_anchors, X509_free);
931     }

933     return (ret);
934 }

```

unchanged portion omitted

```

1056 /*
1057  * Loop through the certificates in a file
1058  */
1059 static int
1060 get_hostnames(const char *path, void *nvl)
1061 {
1062     int         ret = WBCGI_FTW_CBERR;
1063     STACK_OF(X509) *certs = NULL;
1064     PKCS12     *p12 = NULL;
1065     char       message[WBCGI_MAXBUF];
1066     char       buf[WBCGI_MAXBUF + 1];
1067     FILE      *rfp = NULL;
1068     X509      *x = NULL;
1069     int       errtype = 0;
1070     int       chars;
1071     int       i;

1073     if ((rfp = fopen(path, "r")) == NULL) {
1074         goto cleanup;
1075     }

1077     if ((p12 = d2i_PKCS12_fp(rfp, NULL)) == NULL) {
1078         errtype = 1;
1079         goto cleanup;

```

```

1080     }
1081     i = sunw_PKCS12_parse(p12, WANBOOT_PASSPHRASE, DO_NONE, NULL, 0, NULL,
1082         NULL, NULL, &certs);
1083     if (i <= 0) {
1084         errtype = 1;
1085         goto cleanup;
1086     }

1088     PKCS12_free(p12);
1089     p12 = NULL;

1091     for (i = 0; i < sk_X509_num(cert); i++) {
1092         /* LINTED */
1093         x = sk_X509_value(cert, i);
1094         if (!one_name(sunw_issuer_attrs(x, buf, sizeof (buf) - 1),
1095             nvl)) {
1096             goto cleanup;
1097         }
1098     }

1099     ret = WBCGI_FTW_CBCONT;
1100 cleanup:
1101     if (ret == WBCGI_FTW_CBERR) {
1102         if (errtype == 1) {
1103             chars = snprintf(message, sizeof (message),
1104                 "(internal PKCS12 error reading %s)", path);
1105         } else {
1106             chars = snprintf(message, sizeof (message),
1107                 "error reading %s", path);
1108         }
1109         if (chars > 0 && chars <= sizeof (message)) {
1110             print_status(500, message);
1111         } else {
1112             print_status(500, NULL);
1113         }
1114     }
1115     if (rfp != NULL) {
1116         (void) fclose(rfp);
1117     }
1118     if (p12 != NULL) {
1119         PKCS12_free(p12);
1120     }
1121     if (certs != NULL) {
1122         sk_X509_pop_free(cert, X509_free);
1123     }

1125     return (ret);
1126 }

```

unchanged portion omitted

```

*****
2444 Fri May 16 10:29:51 2014
new/usr/src/cmd/ssh/libssh/Makefile.com
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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25 LIBRARY = libssh.a
26 VERS = .1

28 OBJECTS = \
29 addrmatch.o \
30 atomicio.o \
31 authfd.o \
32 authfile.o \
33 bufaux.o \
34 buffer.o \
35 canohost.o \
36 channels.o \
37 cipher.o \
38 cipher-ctr.o \
39 compat.o \
40 compress.o \
41 crc32.o \
42 deattack.o \
43 dh.o \
44 dispatch.o \
45 engine.o \
46 entropy.o \
47 fatal.o \
48 glln.o \
49 hostfile.o \
50 key.o \
51 kex.o \
52 kexdh.o \
53 kexdhc.o \
54 kexdhs.o \
55 kexgex.o \
56 kexgexc.o \
57 kexgexs.o \
58 kexgssc.o \
59 kexgsss.o \

```

```

60 log.o \
61 mac.o \
62 match.o \
63 misc.o \
64 mpaux.o \
65 msg.o \
66 nchan.o \
67 packet.o \
68 progressmeter.o \
69 proxy-io.o \
70 radix.o \
71 readconf.o \
72 readpass.o \
73 rsa.o \
74 sftp-common.o \
75 ssh-dss.o \
76 ssh-gss.o \
77 ssh-rsa.o \
78 tildexpand.o \
79 ttymodes.o \
80 uidswap.o \
81 uuencode.o \
82 xlist.o \
83 xmalloc.o

85 include $(SRC)/lib/Makefile.lib

87 BUILD.AR = $(RM) $@ ; $(AR) $(ARFLAGS) $@ $(AROBJS)

89 SRCDIR = ../common
90 SRCS = $(OBJECTS:%.o=../common/%.c)

92 LIBS = $(LIBRARY) $(LINTLIB)

94 # Define LDLIBS conditionally for lintcheck, rather than in general, since
95 # we're building an archive library which itself links to nothing, we just
96 # want lint to know about these libraries.
97 lintcheck := LDLIBS += -lz -lsocket -lnsl -lc
98 lintcheck := LDLIBS += -lcrypto -lz -lsocket -lnsl -lc
99 $(LINTLIB) := SRCS = $(SRCDIR)/$(LINTSRC)

100 POFILE_DIR = ../..

102 .KEEP_STATE:

104 all: $(LIBS)

106 # lint requires the (not installed) lint library
107 lint: $(LINTLIB) .WAIT lintcheck

109 include $(SRC)/lib/Makefile.targ

111 objs/%.o: $(SRCDIR)/%.c
112 $(COMPILE.c) -o $@ $<
113 $(POST_PROCESS_O)

115 include ../../Makefile.ssh-common
116 include ../../Makefile.msg.targ

```



new/usr/src/cmd/ssh/sftp-server/Makefile

1

```
*****
1595 Fri May 16 10:29:51 2014
new/usr/src/cmd/ssh/sftp-server/Makefile
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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23 #
24 # cmd/ssh/sftp-server/Makefile

26 PROG =          sftp-server

28 OBJS =          sftp-server.o sftp-server-main.o
29 SRCS =          $(OBJS:.o=.c)

31 include .././Makefile.cmd
32 include ../Makefile.ssh-common

34 LDLIBS +=       $(SSH_COMMON_LDLIBS) -lsocket

36 # libcrypto has no lint library, so we can only use it when building
37 $(PROG) :=      LDLIBS += -lcrypto
34 LDLIBS +=       $(SSH_COMMON_LDLIBS) -lsocket -lcrypto

39 POFILE_DIR =   ..

41 .KEEP_STATE:

43 .PARALLEL:     $(OBJS)

45 all:          $(PROG)

47 $(PROG):      $(OBJS) ../libssh/$(MACH)/libssh.a ../libopenbsd-compat/$(MACH)/
48               $(LINK.c) $(OBJS) -o $@ $(LDLIBS) $(DYNFLAGS)
49               $(POST_PROCESS)

51 install:      all $(ROOTLIBSSHPROG) $(ROOTLIBSSH)

53 clean:
54               $(RM) -f $(OBJS) $(PROG)

56 lint:         lint_SRCS

58 include ../Makefile.msg.targ
```

new/usr/src/cmd/ssh/sftp-server/Makefile

2

```
59 include .././Makefile.targ
```

new/usr/src/cmd/ssh/sftp/Makefile

1

```
*****
1580 Fri May 16 10:29:51 2014
new/usr/src/cmd/ssh/sftp/Makefile
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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23 #
24 # cmd/ssh/sftp/Makefile

26 PROG =          sftp

28 OBJS =          \
29                sftp.o \
30                sftp-client.o \
31                sftp-glob.o

33 SRCS =          $(OBJS:.o=.c)

35 include ../../Makefile.cmd
36 include ../../Makefile.ssh-common

38 LDLIBS +=       $(SSH_COMMON_LDLIBS) -lsocket -ltecla

40 # libcrypto has no lint library, so we can only use it when building
41 $(PROG) := LDLIBS += -lcrypto
38 LDLIBS +=       $(SSH_COMMON_LDLIBS) -lsocket -lcrypto -ltecla

43 POFILE_DIR =    ..

45 .KEEP_STATE:

47 .PARALLEL:      $(OBJS)

49 all: $(PROG)

51 $(PROG):        $(OBJS) ../libssh/$(MACH)/libssh.a ../libopenbsd-compat/$(MACH)/
52                $(LINK.c) $(OBJS) -o $@ $(LDLIBS) $(DYNFLAGS)
53                $(POST_PROCESS)

55 install:        all $(ROOTPROG)

57 clean:
58                $(RM) -f $(OBJS) $(PROG)
```

new/usr/src/cmd/ssh/sftp/Makefile

2

```
60 lint:          lint_SRCS

62 include ../../Makefile.msg.targ
63 include ../../Makefile.targ
```

new/usr/src/cmd/ssh/ssh-add/Makefile

1

```
*****
1542 Fri May 16 10:29:52 2014
new/usr/src/cmd/ssh/ssh-add/Makefile
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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23 #
24 # cmd/ssh/ssh-add/Makefile

26 PROG= ssh-add

28 OBJS = \
29     ssh-add.o
30 SRCS = $(OBJS:.o=.c)

32 include ../../Makefile.cmd
33 include ../Makefile.ssh-common

35 LDLIBS += $(SSH_COMMON_LDLIBS) -lsocket

37 # libcrypto has no lint library, so we can only use it when building
38 $(PROG) := LDLIBS += -lcrypto
35 LDLIBS += $(SSH_COMMON_LDLIBS) -lsocket -lcrypto

40 POFILE_DIR= ..

42 .KEEP_STATE:

44 .PARALLEL: $(OBJS)

46 all: $(PROG)

48 $(PROG): $(OBJS) ../libssh/$(MACH)/libssh.a ../libopenbsd-compat/$(MACH)/libopen
49     $(LINK.c) $(OBJS) -o $@ $(LDLIBS) $(DYNFLAGS)
50     $(POST_PROCESS)

52 install: all $(ROOTPROG)

54 clean:
55     $(RM) -f $(OBJS) $(PROG)

57 lint: lint_SRCS
```

new/usr/src/cmd/ssh/ssh-add/Makefile

2

```
59 include ../Makefile.msg.targ
60 include ../../Makefile.targ
```

new/usr/src/cmd/ssh/ssh-agent/Makefile

1

```
*****
1548 Fri May 16 10:29:52 2014
new/usr/src/cmd/ssh/ssh-agent/Makefile
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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23 #
24 # cmd/ssh/ssh-agent/Makefile

26 PROG= ssh-agent

28 OBJS   =          \
29         ssh-agent.o
30 SRCS   = $(OBJS:.o=.c)

32 include .././Makefile.cmd
33 include ../Makefile.ssh-common

35 LDLIBS += $(SSH_COMMON_LDLIBS) -lsocket

37 # libcrypto has no lint library, so we can only use it when building
38 $(PROG) := LDLIBS += -lcrypto
35 LDLIBS += $(SSH_COMMON_LDLIBS) -lsocket -lcrypto

40 POFILE_DIR= ..

42 .KEEP_STATE:

44 .PARALLEL: $(OBJS)

46 all: $(PROG)

48 $(PROG): $(OBJS) ../libssh/$(MACH)/libssh.a ../libopenbsd-compat/$(MACH)/libopen
49          $(LINK.c) $(OBJS) -o $@ $(LDLIBS) $(DYNFLAGS)
50          $(POST_PROCESS)

52 install: all $(ROOTPROG)

54 clean:
55     $(RM) -f $(OBJS) $(PROG)

57 lint:  lint_SRCS
```

new/usr/src/cmd/ssh/ssh-agent/Makefile

2

```
59 include ../Makefile.msg.targ
60 include .././Makefile.targ
```

new/usr/src/cmd/ssh/ssh-keygen/Makefile

1

```
*****
1551 Fri May 16 10:29:52 2014
new/usr/src/cmd/ssh/ssh-keygen/Makefile
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
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24 # cmd/ssh/ssh-keygen/Makefile

26 PROG= ssh-keygen

28 OBJS = \
29     ssh-keygen.o
30 SRCS = $(OBJS:.o=.c)

32 include ../Makefile.cmd
33 include ../Makefile.ssh-common

35 LDLIBS += $(SSH_COMMON_LDLIBS) -lsocket

37 # libcrypto has no lint library, so we can only use it when building
38 $(PROG) := LDLIBS += -lcrypto
35 LDLIBS += $(SSH_COMMON_LDLIBS) -lcrypto -lsocket

40 POFILE_DIR= ..

42 .KEEP_STATE:

44 .PARALLEL: $(OBJS)

46 all: $(PROG)

48 $(PROG): $(OBJS) ../libssh/$(MACH)/libssh.a ../libopenbsd-compat/$(MACH)/libopen
49     $(LINK.c) $(OBJS) -o $@ $(LDLIBS) $(DYNFLAGS)
50     $(POST_PROCESS)

52 install: all $(ROOTPROG)

54 clean:
55     $(RM) -f $(OBJS) $(PROG)

57 lint: lint_SRCS
```

new/usr/src/cmd/ssh/ssh-keygen/Makefile

2

```
59 include ../Makefile.msg.targ
60 include ../Makefile.targ
```

new/usr/src/cmd/ssh/ssh-keyscan/Makefile

1

```
*****
1564 Fri May 16 10:29:52 2014
new/usr/src/cmd/ssh/ssh-keyscan/Makefile
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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24 # cmd/ssh/ssh-keyscan/Makefile

26 PROG= ssh-keyscan

28 OBJS = \
29     ssh-keyscan.o
30 SRCS = $(OBJS:.o=.c)

32 include ../Makefile.cmd
33 include ../Makefile.ssh-common

35 LDLIBS += $(SSH_COMMON_LDLIBS) -lsocket -lnsl -lz

37 # libcrypto has no lint library, so we can only use it when building
38 $(PROG) := LDLIBS += -lcrypto
35 LDLIBS += $(SSH_COMMON_LDLIBS) -lsocket -lnsl -lz -lcrypto

40 POFILE_DIR= ..

42 .KEEP_STATE:

44 .PARALLEL: $(OBJS)

46 all: $(PROG)

48 $(PROG): $(OBJS) ../libssh/$(MACH)/libssh.a ../libopenbsd-compat/$(MACH)/libopen
49     $(LINK.c) $(OBJS) -o $@ $(LDLIBS) $(DYNFLAGS)
50     $(POST_PROCESS)

52 clean:
53     $(RM) -f $(OBJS) $(PROG)

55 lint: lint_SRCS

57 include ../Makefile.msg.targ
58 include ../Makefile.targ
```

new/usr/src/cmd/ssh/ssh-keyscan/Makefile

2

```
60 install: all $(ROOTPROG)
```

new/usr/src/cmd/ssh/ssh-keysign/Makefile

1

```
*****
1685 Fri May 16 10:29:53 2014
new/usr/src/cmd/ssh/ssh-keysign/Makefile
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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24 # cmd/ssh/ssh-keysign/Makefile

26 PROG= ssh-keysign

28 DIRS= $(ROOTLIBSSH)

31 OBJS    = ssh-keysign.o
32 SRCS    = $(OBJS:.o=.c)

34 include ../../Makefile.cmd
35 include ../Makefile.ssh-common

37 FILEMODE= 04555

39 LDLIBS += $(SSH_COMMON_LDLIBS) -lsocket -lnsl -lz

41 # libcrypto has no lint library, so we can only use it when building
42 $(PROG) := LDLIBS += -lcrypto
39 LDDLIBS += $(SSH_COMMON_LDLIBS) -lsocket -lnsl -lz -lcrypto

44 POFILE_DIR= ..

46 .KEEP_STATE:

48 .PARALLEL: $(OBJS)

50 all: $(PROG)

52 $(PROG): $(OBJS) ../libssh/$(MACH)/libssh.a ../libopenbsd-compat/$(MACH)/libopen
53      $(LINK.c) $(OBJS) -o $@ $(LDLIBS) $(DYNFLAGS)
54      $(POST_PROCESS)

56 clean:
57      $(RM) -f $(OBJS) $(PROG)
```

new/usr/src/cmd/ssh/ssh-keysign/Makefile

2

```
59 lint: lint_SRCS

61 include ../Makefile.msg.targ
62 include ../../Makefile.targ

64 install: all $(DIRS) $(ROOTLIBSSHPROG) $(ROOTLIBSSH)

67 $(ROOTLIBSSHPROG)/%: %
68      $(INS.file)

70 $(DIRS):
71      $(INS.dir)
```

```

*****
1681 Fri May 16 10:29:53 2014
new/usr/src/cmd/ssh/ssh/Makefile
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Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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23 #
24 # cmd/ssh/ssh/Makefile

26 PROG= ssh

28 OBJS   = ssh.o \
29         sshconnect.o \
30         sshconnect1.o \
31         sshconnect2.o \
32         sshtty.o \
33         clientloop.o \
34         gss-clnt.o
35 SRCS   = $(OBJS:.o=.c)

37 include ../Makefile.cmd
38 include ../Makefile.ssh-common

40 LDLIBS += $(SSH_COMMON_LDLIBS) -lsocket \
41         -lnsl \
42         -lz \
43         -lcrypto \
43         -lgss

45 # libcrypto has no lint library, so we can only use it when building
46 $(PROG) := LDLIBS += -lcrypto
47 #endif /* ! codereview */

49 POFILE_DIR= ..

51 .KEEP_STATE:

53 .PARALLEL: $(OBJS)

55 all: $(PROG)

57 $(PROG): $(OBJS) ../libssh/$(MACH)/libssh.a ../libopenbsd-compat/$(MACH)/libopen
58         $(LINK.c) $(OBJS) -o $@ $(LDLIBS) $(DYNFLAGS)

```

```

59         $(POST_PROCESS)

61 install: all $(ROOTPROG)

63 clean:
64         $(RM) -f $(OBJS) $(PROG)

66 lint:    lint_SRCS

68 include ../Makefile.msg.targ

70 XGETFLAGS += --keyword=log
71 include ../Makefile.targ

```



```

*****
2503 Fri May 16 10:29:53 2014
new/usr/src/cmd/ssh/sshd/Makefile
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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23 #
24 # cmd/ssh/sshd/Makefile

26 PROG= sshd

28 DIRS= $(ROOTLIBSSH)

30 OBJS = sshd.o \
31 altprivsep.o \
32 auth.o \
33 auth1.o \
34 auth2.o \
35 auth-options.o \
36 auth2-chall.o \
37 auth2-gss.o \
38 auth2-hostbased.o \
39 auth2-kbdint.o \
40 auth2-none.o \
41 auth2-passwd.o \
42 auth2-pam.o \
43 auth2-pubkey.o \
44 auth-bsdauth.o \
45 auth-chall.o \
46 auth-rhosts.o \
47 auth-krb4.o \
48 auth-krb5.o \
49 auth-pam.o \
50 auth-passwd.o \
51 auth-rsa.o \
52 auth-rh-rsa.o \
53 auth-sia.o \
54 auth-key.o \
55 bsmaudit.o \
56 groupaccess.o \
57 gss-serv.o \
58 loginrec.o \
59 servconf.o \

```

```

60 serverloop.o \
61 session.o \
62 sshlogin.o \
63 sshpty.o

65 EXTOBJS = sftp-server.o

67 SRCS = $(OBJS:.o=.c) ../sftp-server/sftp-server.c

69 include ../../Makefile.cmd
70 include ../Makefile.ssh-common

72 LDLIBS += $(SSH_COMMON_LDLIBS) -lsocket \
73 -lnsl \
74 -lz \
75 -lpam \
76 -lbsm \
77 -lwrap \
78 -lcrypto \
79 -lgss \
80 -lcontract
81 MAPFILES = $(MAPFILE.INT) $(MAPFILE.NGB)
82 LDFFLAGS += $(MAPFILES:%=-M%)

83 # libcrypto has no lint library, so we can only use it when building
84 $(PROG) := LDLIBS += -lcrypto
85 #endif /* ! codereview */

87 POFILE_DIR= ..

89 .KEEP_STATE:

91 .PARALLEL: $(OBJS)

93 all: $(PROG)

95 $(PROG): $(OBJS) $(EXTOBJS) $(MAPFILES) ../libssh/$(MACH)/libssh.a \
96 ../libopenbsd-compat/$(MACH)/libopenbsd-compat.a
97 $(LINK.c) $(OBJS) $(EXTOBJS) -o $@ $(LDLIBS) $(DYNFLAGS)
98 $(POST_PROCESS)

100 %.o : ../sftp-server/%.c
101 $(COMPILE.c) -o $@ $<
102 $(POST_PROCESS_O)

104 install: all $(DIRS) $(ROOTLIBSSHPROG) $(ROOTLIBSSH)

107 $(ROOTLIBSSHPROG)/%: %
108 $(INS.file)

110 $(DIRS):
111 $(INS.dir)

113 clean:
114 $(RM) $(OBJS) $(EXTOBJS)

116 lint: lint_SRCS

118 include ../Makefile.msg.targ
119 include ../../Makefile.targ

```

new/usr/src/common/net/wanboot/boot\_http.c

1

\*\*\*\*\*

72083 Fri May 16 10:29:53 2014

new/usr/src/common/net/wanboot/boot\_http.c

4853 illumos-gate is not lint-clean when built with openssl 1.0

Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>

Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>

\*\*\*\*\*

unchanged portion omitted

```
2230 /*
2231  * print_ciphers - Print the list of ciphers for debugging.
2232  *
2233  *     print_ciphers(ssl);
2234  *
2235  * Arguments:
2236  *     ssl      - SSL connection.
2237  *
2238  * Returns:
2239  *     none
2240  */
2241 static void
2242 print_ciphers(SSL *ssl)
2243 {
2244     SSL_CIPHER      *c;
2245     STACK_OF(SSL_CIPHER) *sk;
2246     int             i;
2247     const char      *name;
2248
2249     if (ssl == NULL)
2250         return;
2251
2252     sk = SSL_get_ciphers(ssl);
2253     if (sk == NULL)
2254         return;
2255
2256     for (i = 0; i < sk_SSL_CIPHER_num(sk); i++) {
2257         /* LINTED */
2258         c = sk_SSL_CIPHER_value(sk, i);
2259         libbootlog(BOOTLOG_VERBOSE, "%08lx %s", c->id, c->name);
2260     }
2261     name = SSL_get_cipher_name(ssl);
2262     if (name == NULL)
2263         name = "";
2264     libbootlog(BOOTLOG_VERBOSE, "Current cipher = %s", name);
2265 }
```

unchanged portion omitted

```

*****
1939 Fri May 16 10:29:54 2014
new/usr/src/lib/libkmf/plugins/kmf_openssl/Makefile.com
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
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8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
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13 # When distributing Covered Code, include this CDDL HEADER in each
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15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
22 # Use is subject to license terms.
23 #
24 # Makefile for KMF Plugins
25 #

27 LIBRARY=      kmf_openssl.a
28 VERS=         .1

30 OBJECTS=      openssl_spi.o

32 include $(SRC)/lib/Makefile.lib

34 LIBLINKS=     $(DYNLIB:.so.1=.so)
35 KMFINC=       -I../..../include -I../..../ber_der/inc

37 BERLIB=       -lkmf -lkmfberder
38 BERLIB64=     $(BERLIB)

40 OPENSLLIBS=   $(BERLIB) -lcrypto -lcryptoutil -lc
41 OPENSLLIBS64= $(BERLIB64) -lcrypto -lcryptoutil -lc

43 LINTSSLLIBS  = $(BERLIB) -lcryptoutil -lc
44 LINTSSLLIBS64 = $(BERLIB64) -lcryptoutil -lc
43 LINTSSLLIBS  = $(BERLIB) -lcrypto -lcryptoutil -lc
44 LINTSSLLIBS64 = $(BERLIB64) -lcrypto -lcryptoutil -lc

46 SRCDIR=      ../common
47 INCDIR=      ../..../include

49 CFLAGS       +=      $(CCVERBOSE)
50 CPPFLAGS     +=      -D_REENTRANT $(KMFINC) \
51                -I$(INCDIR) -I$(ADJUNCT_PROTO)/usr/include/libxml2

53 CERRWARN     +=      -_gcc=-Wno-unused-label
54 CERRWARN     +=      -_gcc=-Wno-unused-value
55 CERRWARN     +=      -_gcc=-Wno-uninitialized

57 PICS=        $(OBJECTS:%=pics/%)

```

```

59 lint:=       OPENSLLIBS=      $(LINTSSLLIBS)
60 lint:=       OPENSLLIBS64=    $(LINTSSLLIBS64)

62 LDLIBS32     +=      $(OPENSLLIBS)

64 ROOTLIBDIR=  $(ROOTFS_LIBDIR)/crypto
65 ROOTLIBDIR64= $(ROOTFS_LIBDIR)/crypto/$(MACH64)

67 .KEEP_STATE:

69 LIBS         =          $(DYNLIB)
70 all:         $(DYNLIB) $(LINTLIB)

72 lint: lintcheck

74 FRC:

76 include $(SRC)/lib/Makefile.targ

```

```

*****
133359 Fri May 16 10:29:54 2014
new/usr/src/lib/libkmf/plugins/kmf_openssl/common/openssl_spi.c
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
*****
_unchanged_portion_omitted_

2483 /* omsp_find_signer_sk() is copied from openssl source */
2484 static X509 *omsp_find_signer_sk(STACK_OF(X509) *certs, OCSP_RESPID *id)
2485 {
2486     int i;
2487     unsigned char tmphash[SHA_DIGEST_LENGTH], *keyhash;

2489     /* Easy if lookup by name */
2490     if (id->type == V_OCSP_RESPID_NAME)
2491         return (X509_find_by_subject(certs, id->value.byName));

2493     /* Lookup by key hash */

2495     /* If key hash isn't SHA1 length then forget it */
2496     if (id->value.byKey->length != SHA_DIGEST_LENGTH)
2497         return (NULL);

2499     keyhash = id->value.byKey->data;
2500     /* Calculate hash of each key and compare */
2501     for (i = 0; i < sk_X509_num(certs); i++) {
2502         /* LINTED E_BAD_PTR_CAST_ALIGN */
2503         X509 *x = sk_X509_value(certs, i);
2504         /* Use pubkey_digest to get the key ID value */
2505         (void) X509_pubkey_digest(x, EVP_sha1(), tmphash, NULL);
2506         if (!memcmp(keyhash, tmphash, SHA_DIGEST_LENGTH))
2507             return (x);
2508     }
2509     return (NULL);

_unchanged_portion_omitted_

3595 /*
3596 * Helper function to extract keys and certificates from
3597 * a single PEM file. Typically the file should contain a
3598 * private key and an associated public key wrapped in an x509 cert.
3599 * However, the file may be just a list of X509 certs with no keys.
3600 */
3601 static KMF_RETURN
3602 extract_pem(KMF_HANDLE *kmfh,
3603            char *issuer, char *subject, KMF_BIGNT *serial,
3604            char *filename, CK_UTF8CHAR *pin,
3605            CK_ULONG pinlen, EVP_PKEY **priv_key, KMF_DATA **certs,
3606            int *numcerts)
3607 /* ARGSUSED6 */
3608 {
3609     KMF_RETURN rv = KMF_OK;
3610     FILE *fp;
3611     STACK_OF(X509_INFO) *x509_info_stack = NULL;
3612     int i, ncerts = 0, matchcerts = 0;
3613     EVP_PKEY *pkey = NULL;
3614     X509_INFO *info;
3615     X509 *x;
3616     X509_INFO **cert_infos = NULL;
3617     KMF_DATA *certlist = NULL;

3619     if (priv_key)
3620         *priv_key = NULL;
3621     if (certs)

```

```

3622         *certs = NULL;
3623         fp = fopen(filename, "r");
3624         if (fp == NULL)
3625             return (KMF_ERR_OPEN_FILE);

3627         x509_info_stack = PEM_X509_INFO_read(fp, NULL, NULL, pin);
3628         if (x509_info_stack == NULL) {
3629             (void) fclose(fp);
3630             return (KMF_ERR_ENCODING);
3631         }
3632         cert_infos = (X509_INFO **)malloc(sk_X509_INFO_num(x509_info_stack) *
3633             sizeof (X509_INFO *));
3634         if (cert_infos == NULL) {
3635             (void) fclose(fp);
3636             rv = KMF_ERR_MEMORY;
3637             goto err;
3638         }

3640         for (i = 0; i < sk_X509_INFO_num(x509_info_stack); i++) {
3641             /* LINTED E_BAD_PTR_CAST_ALIGN */
3642             cert_infos[ncerts] = sk_X509_INFO_value(x509_info_stack, i);
3643             ncerts++;
3644         }

3645         if (ncerts == 0) {
3646             (void) fclose(fp);
3647             rv = KMF_ERR_CERT_NOT_FOUND;
3648             goto err;
3649         }

3651         if (priv_key != NULL) {
3652             rewind(fp);
3653             pkey = PEM_read_PrivateKey(fp, NULL, NULL, pin);
3654         }
3655         (void) fclose(fp);

3657         x = cert_infos[ncerts - 1]->x509;
3658         /*
3659          * Make sure the private key matches the last cert in the file.
3660          */
3661         if (pkey != NULL && !X509_check_private_key(x, pkey)) {
3662             EVP_PKEY_free(pkey);
3663             rv = KMF_ERR_KEY_MISMATCH;
3664             goto err;
3665         }

3667         certlist = (KMF_DATA *)calloc(ncerts, sizeof (KMF_DATA));
3668         if (certlist == NULL) {
3669             if (pkey != NULL)
3670                 EVP_PKEY_free(pkey);
3671             rv = KMF_ERR_MEMORY;
3672             goto err;
3673         }

3675         /*
3676          * Convert all of the certs to DER format.
3677          */
3678         matchcerts = 0;
3679         for (i = 0; rv == KMF_OK && certs != NULL && i < ncerts; i++) {
3680             boolean_t match = FALSE;
3681             info = cert_infos[ncerts - 1 - i];

3683             rv = check_cert(info->x509, issuer, subject, serial, &match);
3684             if (rv != KMF_OK || match != TRUE) {
3685                 rv = KMF_OK;
3686                 continue;

```

```

3687     }
3689     rv = ssl_cert2KMFDATA(kmfh, info->x509,
3690                          &certlist[matchcerts++]);
3692     if (rv != KMF_OK) {
3693         int j;
3694         for (j = 0; j < matchcerts; j++)
3695             kmf_free_data(&certlist[j]);
3696         free(certlist);
3697         certlist = NULL;
3698         ncerts = matchcerts = 0;
3699     }
3700 }
3702 if (numcerts != NULL)
3703     *numcerts = matchcerts;
3705 if (certs != NULL)
3706     *certs = certlist;
3707 else if (certlist != NULL) {
3708     for (i = 0; i < ncerts; i++)
3709         kmf_free_data(&certlist[i]);
3710     free(certlist);
3711     certlist = NULL;
3712 }
3714 if (priv_key == NULL && pkey != NULL)
3715     EVP_PKEY_free(pkey);
3716 else if (priv_key != NULL && pkey != NULL)
3717     *priv_key = pkey;
3719 err:
3720 /* Cleanup the stack of X509 info records */
3721 for (i = 0; i < sk_X509_INFO_num(x509_info_stack); i++) {
3722     /* LINTED E_BAD_PTR_CAST_ALIGN */
3723     info = (X509_INFO *)sk_X509_INFO_value(x509_info_stack, i);
3724     X509_INFO_free(info);
3725 }
3726 if (x509_info_stack)
3727     sk_X509_INFO_free(x509_info_stack);
3728 if (cert_infos != NULL)
3729     free(cert_infos);
3731 return (rv);
3732 }
3734 static KMF_RETURN
3735 openssl_parse_bags(STACK_OF(PKCS12_SAFEBAG) *bags, char *pin,
3736                  STACK_OF(EVP_PKEY) *keys, STACK_OF(X509) *certs)
3737 {
3738     KMF_RETURN ret;
3739     int i;
3741     for (i = 0; i < sk_PKCS12_SAFEBAG_num(bags); i++) {
3742         /* LINTED E_BAD_PTR_CAST_ALIGN */
3743         PKCS12_SAFEBAG *bag = sk_PKCS12_SAFEBAG_value(bags, i);
3744         ret = openssl_parse_bag(bag, pin, (pin ? strlen(pin) : 0),
3745                                keys, certs);
3746     }
3747     if (ret != KMF_OK)
3748         return (ret);
3749 }
3750 return (ret);

```

```

3751 }
3753 static KMF_RETURN
3754 set_pkey_attr(EVP_PKEY *pkey, ASN1_TYPE *attrib, int nid)
3755 {
3756     X509_ATTRIBUTE *attr = NULL;
3758     if (pkey == NULL || attrib == NULL)
3759         return (KMF_ERR_BAD_PARAMETER);
3761     if (pkey->attributes == NULL) {
3762         pkey->attributes = sk_X509_ATTRIBUTE_new_null();
3763         if (pkey->attributes == NULL)
3764             return (KMF_ERR_MEMORY);
3765     }
3766     attr = X509_ATTRIBUTE_create(nid, attrib->type, attrib->value.ptr);
3767     if (attr != NULL) {
3768         int i;
3769         X509_ATTRIBUTE *a;
3770         for (i = 0;
3771              i < sk_X509_ATTRIBUTE_num(pkey->attributes); i++) {
3772             /* LINTED E_BAD_PTR_CASE_ALIGN */
3773             a = sk_X509_ATTRIBUTE_value(pkey->attributes, i);
3774             if (OBJ_obj2nid(a->object) == nid) {
3775                 X509_ATTRIBUTE_free(a);
3776                 (void) sk_X509_ATTRIBUTE_set(pkey->attributes,
3777                                             /* LINTED E_BAD_PTR_CAST_ALIGN */
3778                                             sk_X509_ATTRIBUTE_set(pkey->attributes,
3779                                                                     i, attr);
3780                 return (KMF_OK);
3781             }
3782         }
3783         if (sk_X509_ATTRIBUTE_push(pkey->attributes, attr) == NULL) {
3784             X509_ATTRIBUTE_free(attr);
3785             return (KMF_ERR_MEMORY);
3786         }
3788     }
3789     return (KMF_OK);
3790 }
3791
3792 unchanged_portion_omitted
3793
3794 static KMF_RETURN
3795 openssl_pkcs12_parse(PKCS12 *p12, char *pin,
3796                    STACK_OF(EVP_PKEY) *keys,
3797                    STACK_OF(X509) *certs,
3798                    STACK_OF(X509) *ca)
3799 /* ARGSUSED3 */
3800 {
3801     KMF_RETURN ret = KMF_OK;
3802     STACK_OF(PKCS7) *asafes = NULL;
3803     STACK_OF(PKCS12_SAFEBAG) *bags = NULL;
3804     int i, bagnid;
3805     PKCS7 *p7;
3807     if (p12 == NULL || (keys == NULL && certs == NULL))
3808         return (KMF_ERR_BAD_PARAMETER);
3810     if (pin == NULL || *pin == NULL) {
3811         if (PKCS12_verify_mac(p12, NULL, 0)) {
3812             pin = NULL;
3813         } else if (PKCS12_verify_mac(p12, "", 0)) {
3814             pin = "";
3815         } else {

```

```

3941         return (KMF_ERR_AUTH_FAILED);
3942     }
3943 } else if (!PKCS12_verify_mac(pl2, pin, -1)) {
3944     return (KMF_ERR_AUTH_FAILED);
3945 }
3947 if ((asafes = PKCS12_unpack_authsafes(pl2)) == NULL)
3948     return (KMF_ERR_PKCS12_FORMAT);
3950 for (i = 0; ret == KMF_OK && i < sk_PKCS7_num(asafes); i++) {
3951     bags = NULL;
3952     /* LINTED E_BAD_PTR_CAST_ALIGN */
3953     p7 = sk_PKCS7_value(asafes, i);
3954     bagnid = OBJ_obj2nid(p7->type);
3955     if (bagnid == NID_pkcs7_data) {
3956         bags = PKCS12_unpack_p7data(p7);
3957     } else if (bagnid == NID_pkcs7_encrypted) {
3958         bags = PKCS12_unpack_p7encdata(p7, pin,
3959             (pin ? strlen(pin) : 0));
3960     } else {
3961         continue;
3962     }
3963     if (bags == NULL) {
3964         ret = KMF_ERR_PKCS12_FORMAT;
3965         goto out;
3966     }
3968     if (openssl_parse_bags(bags, pin, keys, certs) != KMF_OK)
3969         ret = KMF_ERR_PKCS12_FORMAT;
3971     sk_PKCS12_SAFEBAG_pop_free(bags, PKCS12_SAFEBAG_free);
3972 }
3973 out:
3974 if (asafes != NULL)
3975     sk_PKCS7_pop_free(asafes, PKCS7_free);
3977 return (ret);
3978 }

```

unchanged portion omitted

```

4219 static X509_ATTRIBUTE *
4220 find_attr(STACK_OF(X509_ATTRIBUTE) *attrs, int nid)
4221 {
4222     X509_ATTRIBUTE *a;
4223     int i;
4225     if (attrs == NULL)
4226         return (NULL);
4228     for (i = 0; i < sk_X509_ATTRIBUTE_num(attrs); i++) {
4229         /* LINTED E_BAD_PTR_CAST_ALIGN */
4230         a = sk_X509_ATTRIBUTE_value(attrs, i);
4231         if (OBJ_obj2nid(a->object) == nid)
4232             return (a);
4233     }
4234     return (NULL);
4236 static KMF_RETURN
4237 convertToRawKey(EVP_PKEY *pkey, KMF_RAW_KEY_DATA *key)
4238 {
4239     KMF_RETURN rv = KMF_OK;
4240     X509_ATTRIBUTE *attr;
4242     if (pkey == NULL || key == NULL)

```

```

4243         return (KMF_ERR_BAD_PARAMETER);
4244     /* Convert SSL key to raw key */
4245     switch (pkey->type) {
4246     case EVP_PKEY_RSA:
4247         rv = exportRawRSAKey(EVP_PKEY_get1_RSA(pkey),
4248             key);
4249         if (rv != KMF_OK)
4250             return (rv);
4251         break;
4252     case EVP_PKEY_DSA:
4253         rv = exportRawDSAKey(EVP_PKEY_get1_DSA(pkey),
4254             key);
4255         if (rv != KMF_OK)
4256             return (rv);
4257         break;
4258     default:
4259         return (KMF_ERR_BAD_PARAMETER);
4260     }
4261     /*
4262     * If friendlyName, add it to record.
4263     */
4264     attr = find_attr(pkey->attributes, NID_friendlyName);
4265     if (attr != NULL) {
4266         ASN1_TYPE *ty = NULL;
4267         int numattr = sk_ASN1_TYPE_num(attr->value.set);
4268         if (attr->single == 0 && numattr > 0) {
4269             /* LINTED E_BAD_PTR_CAST_ALIGN */
4270             ty = sk_ASN1_TYPE_value(attr->value.set, 0);
4271         }
4272         if (ty != NULL) {
4273             #if OPENSSSL_VERSION_NUMBER < 0x10000000L
4274             key->label = uni2asc(ty->value.bmpstring->data,
4275                 ty->value.bmpstring->length);
4276             #else
4277             key->label = OPENSSSL_uni2asc(ty->value.bmpstring->data,
4278                 ty->value.bmpstring->length);
4279             #endif
4280         } else {
4281             key->label = NULL;
4282         }
4284     /*
4285     * If KeyID, add it to record as a KMF_DATA object.
4286     */
4287     attr = find_attr(pkey->attributes, NID_localKeyID);
4288     if (attr != NULL) {
4289         ASN1_TYPE *ty = NULL;
4290         int numattr = sk_ASN1_TYPE_num(attr->value.set);
4291         if (attr->single == 0 && numattr > 0) {
4292             /* LINTED E_BAD_PTR_CAST_ALIGN */
4293             ty = sk_ASN1_TYPE_value(attr->value.set, 0);
4294         }
4295         key->id.Data = (uchar_t *)malloc(
4296             ty->value.octet_string->length);
4297         if (key->id.Data == NULL)
4298             return (KMF_ERR_MEMORY);
4299         (void) memcpy(key->id.Data, ty->value.octet_string->data,
4300             ty->value.octet_string->length);
4301         key->id.Length = ty->value.octet_string->length;
4302     } else {
4303         (void) memset(&key->id, 0, sizeof (KMF_DATA));
4304     }
4305     return (rv);
4306 }

```

```

4308 static KMF_RETURN
4309 convertPK12Objects(
4310     KMF_HANDLE *kmfh,
4311     STACK_OF(EVP_PKEY) *sslkeys,
4312     STACK_OF(X509) *sslcert,
4313     STACK_OF(X509) *sslcacerts,
4314     KMF_RAW_KEY_DATA **keylist, int *nkeys,
4315     KMF_X509_DER_CERT **certlist, int *ncerts)
4316 {
4317     KMF_RETURN rv = KMF_OK;
4318     KMF_RAW_KEY_DATA key;
4319     int i;

4321     for (i = 0; sslkeys != NULL && i < sk_EVP_PKEY_num(sslkeys); i++) {
4322         /* LINTED E_BAD_PTR_CAST_ALIGN */
4323         EVP_PKEY *pkey = sk_EVP_PKEY_value(sslkeys, i);
4324         rv = convertToRawKey(pkey, &key);
4325         if (rv == KMF_OK)
4326             rv = add_key_to_list(keylist, &key, nkeys);

4327         if (rv != KMF_OK)
4328             return (rv);
4329     }

4331     /* Now add the certificate to the certlist */
4332     for (i = 0; sslcert != NULL && i < sk_X509_num(sslcert); i++) {
4333         /* LINTED E_BAD_PTR_CAST_ALIGN */
4334         X509 *cert = sk_X509_value(sslcert, i);
4335         rv = add_cert_to_list(kmfh, cert, certlist, ncerts);
4336         if (rv != KMF_OK)
4337             return (rv);
4338     }

4339     /* Also add any included CA certs to the list */
4340     for (i = 0; sslcacerts != NULL && i < sk_X509_num(sslcacerts); i++) {
4341         X509 *c;
4342         /*
4343          * sk_X509_value() is macro that embeds a cast to (X509 *).
4344          * Here it translates into ((X509 *)sk_value((ca), (i))).
4345          * Lint is complaining about the embedded casting, and
4346          * to fix it, you need to fix openssl header files.
4347          */
4348         /* LINTED E_BAD_PTR_CAST_ALIGN */
4349         c = sk_X509_value(sslcacerts, i);

4350         /* Now add the ca cert to the certlist */
4351         rv = add_cert_to_list(kmfh, c, certlist, ncerts);
4352         if (rv != KMF_OK)
4353             return (rv);
4354     }
4355     return (rv);
4356 }

```

unchanged portion omitted

```

5309 KMF_RETURN
5310 OpenSSL_FindCertInCRL(KMF_HANDLE_T handle, int numattr, KMF_ATTRIBUTE *attrlist)
5311 {
5312     KMF_RETURN ret = KMF_OK;
5313     KMF_HANDLE *kmfh = (KMF_HANDLE *)handle;
5314     KMF_ENCODE_FORMAT format;
5315     BIO *in = NULL;
5316     X509 *xcert = NULL;
5317     X509_CRL *xcrl = NULL;
5318     STACK_OF(X509_REVOKED) *revoke_stack = NULL;
5319     X509_REVOKED *revoke;

```

```

5320     int i;
5321     char *crlfilename, *crlfile, *dirpath, *certfile;

5323     if (numattr == 0 || attrlist == NULL) {
5324         return (KMF_ERR_BAD_PARAMETER);
5325     }

5327     crlfilename = kmf_get_attr_ptr(KMF_CRL_FILENAME_ATTR,
5328                                   attrlist, numattr);

5330     if (crlfilename == NULL)
5331         return (KMF_ERR_BAD_CRLFILE);

5333     certfile = kmf_get_attr_ptr(KMF_CERT_FILENAME_ATTR, attrlist, numattr);
5334     if (certfile == NULL)
5335         return (KMF_ERR_BAD_CRLFILE);

5337     dirpath = kmf_get_attr_ptr(KMF_DIRPATH_ATTR, attrlist, numattr);

5339     crlfile = get_fullpath(dirpath, crlfilename);

5341     if (crlfile == NULL)
5342         return (KMF_ERR_BAD_CRLFILE);

5344     if (isdir(crlfile)) {
5345         ret = KMF_ERR_BAD_CRLFILE;
5346         goto end;
5347     }

5349     ret = kmf_is_crl_file(handle, crlfile, &format);
5350     if (ret != KMF_OK)
5351         goto end;

5353     /* Read the CRL file and load it into a X509_CRL structure */
5354     in = BIO_new_file(crlfilename, "rb");
5355     if (in == NULL) {
5356         SET_ERROR(kmfh, ERR_get_error());
5357         ret = KMF_ERR_OPEN_FILE;
5358         goto end;
5359     }

5361     if (format == KMF_FORMAT_ASN1) {
5362         xcrl = d2i_X509_CRL_bio(in, NULL);
5363     } else if (format == KMF_FORMAT_PEM) {
5364         xcrl = PEM_read_bio_X509_CRL(in, NULL, NULL, NULL);
5365     }

5367     if (xcrl == NULL) {
5368         SET_ERROR(kmfh, ERR_get_error());
5369         ret = KMF_ERR_BAD_CRLFILE;
5370         goto end;
5371     }
5372     (void) BIO_free(in);

5374     /* Read the Certificate file and load it into a X509 structure */
5375     ret = kmf_is_cert_file(handle, certfile, &format);
5376     if (ret != KMF_OK)
5377         goto end;

5379     in = BIO_new_file(certfile, "rb");
5380     if (in == NULL) {
5381         SET_ERROR(kmfh, ERR_get_error());
5382         ret = KMF_ERR_OPEN_FILE;
5383     }
5384     goto end;

```

```
5386     if (format == KMF_FORMAT_ASN1) {
5387         xcert = d2i_X509_bio(in, NULL);
5388     } else if (format == KMF_FORMAT_PEM) {
5389         xcert = PEM_read_bio_X509(in, NULL, NULL, NULL);
5390     }
5392     if (xcert == NULL) {
5393         SET_ERROR(kmfh, ERR_get_error());
5394         ret = KMF_ERR_BAD_CERTFILE;
5395         goto end;
5396     }
5398     /* Check if the certificate and the CRL have same issuer */
5399     if (X509_NAME_cmp(xcert->cert_info->issuer, xcrl->crl->issuer) != 0) {
5400         ret = KMF_ERR_ISSUER;
5401         goto end;
5402     }
5404     /* Check to see if the certificate serial number is revoked */
5405     revoke_stack = X509_CRL_get_REVOKED(xcrl);
5406     if (sk_X509_REVOKED_num(revoke_stack) <= 0) {
5407         /* No revoked certificates in the CRL file */
5408         SET_ERROR(kmfh, ERR_get_error());
5409         ret = KMF_ERR_EMPTY_CRL;
5410         goto end;
5411     }
5413     for (i = 0; i < sk_X509_REVOKED_num(revoke_stack); i++) {
5427         /* LINTED E_BAD_PTR_CAST_ALIGN */
5414         revoke = sk_X509_REVOKED_value(revoke_stack, i);
5415         if (ASN1_INTEGER_cmp(xcert->cert_info->serialNumber,
5416             revoke->serialNumber) == 0) {
5417             break;
5418         }
5419     }
5421     if (i < sk_X509_REVOKED_num(revoke_stack)) {
5422         ret = KMF_OK;
5423     } else {
5424         ret = KMF_ERR_NOT_REVOKED;
5425     }
5427 end:
5428     if (in != NULL)
5429         (void) BIO_free(in);
5430     if (xcrl != NULL)
5431         X509_CRL_free(xcrl);
5432     if (xcert != NULL)
5433         X509_free(xcert);
5435     return (ret);
5436 }
unchanged_portion_omitted
```



```

*****
2541 Fri May 16 10:29:54 2014
new/usr/src/lib/libpkg/Makefile.com
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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25 #
26 #
27 LIBRARY= libpkg.a
28 VERS= .1
29 #
30 # include library definitions
31 OBJECTS=
32         canonize.o  ckparam.o  ckvolseq.o \
33         devtype.o   dstream.o  gpkglst.o \
34         gpkgmap.o   isdir.o    logerr.o \
35         mappath.o   ncgrpw.o  nhash.o \
36         pkgexecl.o  pkgexecv.o pkgmount.o \
37         pkgtrans.o  ppgkmap.o \
38         progerr.o   putcfile.o rmdir.o \
39         runcmd.o    srchcfile.o tputcfent.o \
40         verify.o    security.o pkgweb.o \
41         pkgerr.o    keystore.o pl2lib.o \
42         vfpops.o    fmkdir.o  pkgstr.o \
43         handlelocalfs.o pkgserv.o
44 #
45 #
46 # include library definitions
47 include $(SRC)/lib/Makefile.lib
48 #
49 SRCDIR=      ../common
50 #
51 POFILE =     libpkg.po
52 MSGFILES =   $(OBJECTS:%.o=../common/%.i)
53 CLEANFILES += $(MSGFILES)
54 #
55 # This library is NOT lint clean
56 #
57 # openssl forces us to ignore dubious pointer casts, thanks to its clever
58 # use of macros for stack management.
59 LINTFLAGS=   -umx -errtags \

```

```

60         -erroff=E_BAD_PTR_CAST_ALIGN,E_BAD_PTR_CAST
61 $(LINTLIB) := $(SRCDIR)/$(LINTSRC)
62 #
63 #
64 LIBS = $(DYNLIB) $(LINTLIB)
65 #
66 #
67 LDLIBS +=   -lc -lwanboot -lscf -ladm
68 #
69 # libcrypto and libssl have no lint library, and so can only be used when
70 # building
71 $(DYNLIB) := LDLIBS += -lcrypto -lssl
72 LDLIBS +=   -lc -lssl -lwanboot -lcrypto -lscf -ladm
73 CFLAGS +=   $(CVERBOSE)
74 CERRWARN += -_gcc=Wno-unused-label
75 CERRWARN += -_gcc=Wno-parentheses
76 CERRWARN += -_gcc=Wno-uninitialized
77 CERRWARN += -_gcc=Wno-clobbered
78 CERRWARN += -_gcc=Wno-switch
79 CERRWARN += -_gcc=Wno-unused-value
80 CPPFLAGS += -I$(SRCDIR) -D_FILE_OFFSET_BITS=64
81 #
82 .KEEP_STATE:
83 #
84 all:        $(LIBS)
85 #
86 $(POFILE): $(MSGFILES)
87            $(BUILDPO.msgfiles)
88 #
89 _msg: $(MSGDOMAINPOFILE)
90 #
91 lint: lintcheck
92 #
93 # include library targets
94 include $(SRC)/lib/Makefile.targ
95 include $(SRC)/Makefile.msg.targ

```

```

*****
6803 Fri May 16 10:29:55 2014
new/usr/src/lib/libpkg/common/security.c
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
*****
unchanged_portion_omitted

79 /*
80 * get_cert_chain - Builds a chain of certificates, from a given
81 * user certificate to a trusted certificate.
82 *
83 * Arguments:
84 * err - Error object to add errors to
85 * cert - User cert to start with
86 * cas - Trusted certs to use as trust anchors
87 * chain - The resulting chain of certs (in the form of an
88 * ordered set) is placed here.
89 *
90 * Returns:
91 * 0 - Success - chain is stored in 'chain'.
92 * non-zero - Failure, errors recorded in err
93 */
94 int
95 get_cert_chain(PKG_ERR *err, X509 *cert, STACK_OF(X509) *clcerts,
96               STACK_OF(X509) *cas, STACK_OF(X509) **chain)
97 {
98     X509_STORE_CTX *store_ctx = NULL;
99     X509_STORE *ca_store = NULL;
100    X509 *ca_cert = NULL;
101    int i;
102    int ret = 0;

104    if ((ca_store = X509_STORE_new()) == NULL) {
105        pkgerr_add(err, PKGERR_NOMEM,
106                 gettext(ERR_MEM));
107        ret = 1;
108        goto cleanup;
109    }

111    /* add all ca certs into the store */
112    for (i = 0; i < sk_X509_num(cas); i++) {
113        /* LINTED pointer cast may result in improper alignment */
114        ca_cert = sk_X509_value(cas, i);
115        if (X509_STORE_add_cert(ca_store, ca_cert) == 0) {
116            pkgerr_add(err, PKGERR_NOMEM, gettext(ERR_MEM));
117            ret = 1;
118            goto cleanup;
119        }
121    /* initialize context object used during the chain resolution */

123    if ((store_ctx = X509_STORE_CTX_new()) == NULL) {
124        pkgerr_add(err, PKGERR_NOMEM, gettext(ERR_MEM));
125        ret = 1;
126        goto cleanup;
127    }

129    (void) X509_STORE_CTX_init(store_ctx, ca_store, cert, clcerts);
130    /* attempt to verify the cert, which builds the cert chain */
131    if (X509_verify_cert(store_ctx) <= 0) {
132        pkgerr_add(err, PKGERR_CHAIN,
133                 gettext(ERR_CERTCHAIN),
134                 get_subject_display_name(cert),

```

```

135         X509_verify_cert_error_string(store_ctx->error));
136         ret = 1;
137         goto cleanup;
138     }
139     *chain = X509_STORE_CTX_get1_chain(store_ctx);

141 cleanup:
142     if (ca_store != NULL)
143         (void) X509_STORE_free(ca_store);
144     if (store_ctx != NULL) {
145         (void) X509_STORE_CTX_cleanup(store_ctx);
146         (void) X509_STORE_CTX_free(store_ctx);
147     }

149     return (ret);
150 }

152 /*
153 * Name:             get_subject_name
154 * Description:      Retrieves a name used for identifying a certificate's subject.
155 *
156 * Arguments:        cert - The certificate to get the name from
157 *
158 * Returns :         A static buffer containing the common name (CN) of the
159 *                   subject of the cert.
160 *
161 *                   if the CN is not available, returns a string with the entire
162 *                   X509 distinguished name.
163 */
164 char
165 *get_subject_display_name(X509 *cert)
166 {
168     X509_NAME *xname;
169     static char sname[ATTR_MAX];

171     xname = X509_get_subject_name(cert);
172     if (X509_NAME_get_text_by_NID(xname,
173                                   NID_commonName, sname,
174                                   ATTR_MAX) <= 0) {
175         (void) strncpy(sname,
176                       X509_NAME_oneline(xname, NULL, 0), ATTR_MAX);
177         X509_NAME_oneline(xname,
178                           NULL, 0), ATTR_MAX);
179     }
180     sname[ATTR_MAX - 1] = '\0';
181     return (sname);
182 }

182 /*
183 * Name:             get_display_name
184 * Description:      Retrieves a name used for identifying a certificate's issuer.
185 *
186 * Arguments:        cert - The certificate to get the name from
187 *
188 * Returns :         A static buffer containing the common name (CN)
189 *                   of the issuer of the cert.
190 *
191 *                   if the CN is not available, returns a string with the entire
192 *                   X509 distinguished name.
193 */
194 char
195 *get_issuer_display_name(X509 *cert)
196 {
198     X509_NAME *xname;

```

```
199     static char     sname[ATTR_MAX];
201     xname = X509_get_issuer_name(cert);
202     if (X509_NAME_get_text_by_NID(xname,
203         NID_commonName, sname,
204         ATTR_MAX) <= 0) {
205         (void) strncpy(sname,
206             X509_NAME_oneline(xname, NULL, 0), ATTR_MAX);
207         X509_NAME_oneline(xname,
208             NULL, 0), ATTR_MAX);
209         sname[ATTR_MAX - 1] = '\\0';
210     }
211     return (sname);
212 }
```

unchanged\_portion\_omitted

```

*****
2761 Fri May 16 10:29:55 2014
new/usr/src/lib/libwanboot/Makefile.com
4853 illumos-gate is not lint-clean when built with openssl 1.0
Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>
Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>
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27 LIBRARY =      libwanboot.a
28 VERS =        .1

30 # List of locally located modules.
31 LOC_DIR =      ../common
32 LOC_OBJS =     socket_inet.o bootinfo_aux.o
33 LOC_SRCS =     $(LOC_OBJS:%.o=$(LOC_DIR)/%.c)

35 # List of common wanboot objects.
36 COM_DIR =      ../../../common/net/wanboot
37 COM_OBJS =     auxutil.o \
38               boot_http.o \
39               bootconf.o \
40               bootconf_errmsg.o \
41               bootinfo.o \
42               bootlog.o \
43               http_errorstr.o \
44               pl2access.o \
45               pl2auxpars.o \
46               pl2auxutl.o \
47               pl2err.o \
48               pl2misc.o \
49               parseURL.o
50 COM_SRCS =     $(COM_OBJS:%.o=$(COM_DIR)/%.c)

52 # List of common DHCP modules.
53 DHCP_DIR =     $(SRC)/common/net/dhcp
54 DHCP_OBJS =    dhcpinfo.o
55 DHCP_SRCS =    $(DHCP_OBJS:%.o=$(DHCP_DIR)/%.c)

57 OBJECTS =     $(LOC_OBJS) $(COM_OBJS) $(DHCP_OBJS)

59 include ../../Makefile.lib

```

```

61 LIBS +=        $(LINTLIB)
62 LDLIBS +=     -lnvpair -lresolv -lnsl -lsocket -ldevinfo -ldhcputil \
63               -linetutil -lc

65 # libcrypto and libssl have no lint library, so we can only use it when
66 # building
67 $(DYNLIB) :=  LDLIBS += -lcrypto -lssl

63               -linetutil -lc -lcrypto -lssl
69 CPPFLAGS =    -I$(SRC)/common/net/wanboot/crypt $(CPPFLAGS.master)
70 CERRWARN +=   -_gcc=-Wno-switch
71 CERRWARN +=   -_gcc=-Wno-parentheses
72 CERRWARN +=   -_gcc=-Wno-unused-value
73 CERRWARN +=   -_gcc=-Wno-uninitialized

75 # Must override SRCS from Makefile.lib since sources have
76 # multiple source directories.
77 SRCS =        $(LOC_SRCS) $(COM_SRCS) $(DHCP_SRCS)

79 # Must define location of lint library source.
80 SRCDIR =      $(LOC_DIR)
81 $(LINTLIB) := SRCS = $(SRCDIR)/$(LINTSRC)

83 # OpenSSL requires us to turn this off
84 LINTFLAGS +=  -erroff=E_BAD_PTR_CAST_ALIGN
85 LINTFLAGS64 += -erroff=E_BAD_PTR_CAST_ALIGN

87 CFLAGS +=     $(CVERBOSE)
88 CPPFLAGS +=   -I$(LOC_DIR) -I$(COM_DIR) -I$(DHCP_DIR)

90 .KEEP_STATE:

92 all: $(LIBS)

94 lint: lintcheck

96 pics/%.o: $(COM_DIR)/%.c
97           $(COMPILE.c) -o $@ $<
98           $(POST_PROCESS_O)

100 pics/%.o: $(DHCP_DIR)/%.c
101           $(COMPILE.c) -o $@ $<
102           $(POST_PROCESS_O)

104 include ../../Makefile.targ

```

\*\*\*\*\*

2438 Fri May 16 10:29:55 2014

new/usr/src/lib/pkcs11/pkcs11\_tpm/Makefile.com

4853 illumos-gate is not lint-clean when built with openssl 1.0

Reviewed by Keith Wesolowski <keith.wesolowski@joyent.com>

Reviewed by Alexander Eremin <alexander.eremin@nexenta.com>

\*\*\*\*\*

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23 #
24 LIBRARY =      pkcs11_tpm.a
25 VERS =        .1

27 OBJECTS= api_interface.o \
28          apiutil.o \
29          asnl.o \
30          cert.o \
31          data_obj.o \
32          decr_mgr.o \
33          dig_mgr.o \
34          encr_mgr.o \
35          globals.o \
36          hwf_obj.o \
37          key.o \
38          key_mgr.o \
39          loadsave.o \
40          log.o \
41          mech_md5.o \
42          mech_rsa.o \
43          mech_sha.o \
44          new_host.o \
45          obj_mgr.o \
46          object.o \
47          sess_mgr.o \
48          sign_mgr.o \
49          template.o \
50          tpm_specific.o \
51          utility.o \
52          verify_mgr.o

55 include $(SRC)/lib/Makefile.lib

57 SRCDIR= ../common

59 SRCS=      $(OBJECTS:%.o=$(SRCDIR)/%.c)

```

```

61 #          set signing mode
62 POST_PROCESS_SO +=      ; $(ELFSIGN_CRYPT0)

64 ROOTLIBDIR=$(ROOT)/usr/lib/security
65 ROOTLIBDIR64=$(ROOT)/usr/lib/security/$(MACH64)

67 LIBS=$(DYNLIB) $(DYNLIB64)

69 TSSROOT=$(ADJUNCT_PROTO)
70 TSPILIBDIR=$(TSSROOT)/usr/lib
71 TSPINCINCDIR=$(TSSROOT)/usr/include
72 TSSLIB=-L$(TSPILIBDIR)
73 TSSLIB64=-L$(TSPILIBDIR)/$(MACH64)
74 TSSINC=-I$(TSPINCINCDIR)

76 LDLIBS += $(TSSLIB) -L$(ADJUNCT_PROTO)/lib -lc -luuid -lmd -ltspi

78 # libcrypto has no lint library, so we can only use it when
79 # building
80 $(LIBS) := LDLIBS += -lcrypto

76 LDLIBS += $(TSSLIB) -L$(ADJUNCT_PROTO)/lib -lc -luuid -lmd -ltspi -lcrypto
82 CPPFLAGS += -xCC -D_POSIX_PTHREAD_SEMANTICS $(TSSINC)
83 CPPFLAGS64 += $(CPPFLAGS)
84 C99MODE=      $(C99_ENABLE)

86 CERRWARN +=      -_gcc=-Wno-parentheses
87 CERRWARN +=      -_gcc=-Wno-unused-label
88 CERRWARN +=      -_gcc=-Wno-uninitialized

90 LINTSRC= $(OBJECTS:%.o=$(SRCDIR)/%.c)

92 $(LINTLIB):=      SRCS      =      $(SRCDIR)/$(LINTSRC)
93 LINTSRC= $(SRCS)

95 CLOBBERFILES += C.ln

97 .KEEP_STATE:

99 all: $(LIBS)
100
101 lint: $$$(LINTSRC)
102          $(LINT.c) $(LINTCHECKFLAGS) $(LINTSRC) $(LDLIBS)

104 pics/%.o: $(SRCDIR)/%.c
105          $(COMPILE.c) -o $@ $<
106          $(POST_PROCESS_O)

108 include $(SRC)/lib/Makefile.targ

```