```
**********************************************************
    1267 Thu Jul 25 14:30:59 2013
new/usr/src/cmd/intrd/Makefile
XXX Rearchitect and replace interrupt distribution
**********************************************************
    1 #
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   20 #

   22 #
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   25 #
   26 # Makefile for interrupt distribution daemon
   27 #

   29 PROG=           intrd
   29 MANIFEST=       intrd.xml
   30 SVCMETHOD=      svc-intrd

   32 include ../Makefile.cmd

   34 TARGET= all

   36 ROOTMANIFESTDIR=        $(ROOTSVCSYSTEM)

   38 # install macros and rule
   39 #
   41 ROOTPROG=       $(ROOTLIB)/$(PROG)
   42 $(ROOTPROG)     := FILEMODE= 555

   41 .KEEP_STATE:

   43 all: $(PROG)

   45 install: all .WAIT $(ROOTMANIFEST) $(ROOTSVCMETHOD)
   48 install: all .WAIT $(ROOTPROG) $(ROOTMANIFEST) $(ROOTSVCMETHOD)

   47 clean:

   49 check:  $(CHKMANIFEST)

   51 ${ROOTLIB}/%: %
   52         ${INS.file}

   54 lint:

   56 include ../Makefile.targ
```

****
**   2189 Thu Jul 25 14:31:00 2013**
new/usr/src/cmd/intrd/intrd.xml
XXX Rearchitect and replace interrupt distribution
****
     1 <?xml version="1.0"?>
     2 <!DOCTYPE service_bundle SYSTEM "/usr/share/lib/xml/dtd/service_bundle.dtd.1">
     3 <!--
     4   CDDL HEADER START

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    22   CDDL HEADER END

    24   Copyright 2005 Sun Microsystems, Inc. All rights reserved.
    25   Use is subject to license terms.

    27   *ident   "%Z%%M% %I%   %E% SMI"*

    27   NOTE: This service manifest is not editable; its contents will
    28   be overwritten by package or patch operations, including
    29   operating system upgrade. Make customizations in a different
    30   file.
    31 -->

    33 <service_bundle type='manifest' name='SUNWckr:intrd'>

    35 <service
    36   name='system/intrd'
    37   type='service'
    38   version='1'>

    40   <create_default_instance enabled='false' />

    42   <single_instance/>

    44   <dependency
    45   name='milestone'
    46   grouping='require_all'
    47   restart_on='none'
    48   type='service'>
    49   <service_fmri value='svc:/milestone/multi-user' />
    50   </dependency>

    52   <exec_method
    53   type='method'
    54   name='start'
    55   **exec='/lib/svc/method/svc-intrd start'**
    57   *exec='/lib/svc/method/svc-intrd'*
    56   timeout_seconds='60' />

    58   <exec_method

    59   type='method'
    60   name='stop'
    61   **exec='/lib/svc/method/svc-intrd stop'**
    63   *exec=':kill'*
    62   timeout_seconds='10' />

    64   <property_group name='startd' type='framework'>
    65   <propval name='duration' type='astring' value='transient' />
    66   </property_group>

    68 **#endif /* ! codereview */**
    69   **<stability value='Unstable' />**

    71   **<template>**
    72   **<common_name>**
    73   **<loctext xml:lang='C'> interrupt balancer**
    74   **</loctext>**
    75   **</common_name>**
    76   **<documentation>**
    77   **<manpage title='intrd' section='1M'**
    78   **manpath='/usr/share/man' />**
    79   **</documentation>**
    80   **</template>**
    81 **</service>**

    83 **</service_bundle>**

****
**   1113 Thu Jul 25 14:31:00 2013**
new/usr/src/cmd/intrd/svc-intrd
XXX Rearchitect and replace interrupt distribution
****
```
  1 #!/sbin/sh
  2 #
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 19 # information: Portions Copyright [yyyy] [name of copyright owner]
 20 #
 21 # CDDL HEADER END
 22 #

 24 #
 25 # Copyright 2005 Sun Microsystems, Inc.  All rights reserved.
 26 # Use is subject to license terms.
 27 #
 28 # ident "%Z%%M% %I%     %E% SMI"

 29 . /lib/svc/share/smf_include.sh

 31 #
 32 # Main
 33 #
 34 case "$1" in
 35 'start')
 36         #/sbin/uadmin 24 1 >/dev/null 2>&1
 37         ;;
 38 'stop')
 39         #/sbin/uadmin 24 0 >/dev/null 2>&1
 40         ;;
 41 esac;
 32 # Don't start intrd if intrd can't be found or if intrd is already running.

 43 exit $SMF_EXIT_OK
 34 if [ ! -f /usr/lib/intrd ]; then
 35         echo "$0: intrd daemon not installed"
 36         exit $SMF_EXIT_ERR_CONFIG
 37 fi

 39 if /usr/bin/pgrep -x -z global intrd >/dev/null; then
 40         echo "$0: intrd is already running"
 41         exit $SMF_EXIT_ERR_FATAL
 42 fi

 44 /usr/lib/intrd &
```

```
**********************************************************
   10595 Thu Jul 25 14:31:01 2013
new/usr/src/cmd/uadmin/uadmin.c
XXX Rearchitect and replace interrupt distribution
**********************************************************
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  23  */

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  26 /*        All Rights Reserved   */


  30 #include <errno.h>
  31 #include <fcntl.h>
  32 #include <stdio.h>
  33 #include <stdlib.h>
  34 #include <string.h>
  35 #include <strings.h>
  36 #include <signal.h>
  37 #include <unistd.h>
  38 #ifdef __i386
  39 #include <libscf_priv.h>
  40 #endif /* __i386 */

  42 #include <bsm/adt.h>
  43 #include <bsm/adt_event.h>

  45 #include <sys/types.h>
  46 #include <sys/uadmin.h>
  47 #include <sys/wait.h>

  49 #define SMF_RST "/etc/svc/volatile/resetting"
  50 #define RETRY_COUNT 15  /* number of 1 sec retries for audit(1M) to complete */

  52 static const char *Usage = "Usage: %s cmd fcn [mdep]\n";

  54 static int closeout_audit(int, int);
  55 static int turnoff_auditd(void);
  56 static void wait_for_auqueue();
  57 static int change_audit_file(void);

  59 int
  60 main(int argc, char *argv[])
  61 {
```

```
  62        int cmd, fcn;
  63        uintptr_t mdep = NULL;
  64        sigset_t set;
  65        adt_session_data_t *ah;  /* audit session handle */
  66        adt_event_data_t *event = NULL; /* event to be generated */
  67        au_event_t event_id;
  68        enum adt_uadmin_fcn fcn_id;

  70        if (argc < 3 || argc > 4) {
  71                (void) fprintf(stderr, Usage, argv[0]);
  72                return (1);
  73        }

  75        (void) sigfillset(&set);
  76        (void) sigprocmask(SIG_BLOCK, &set, NULL);

  78        cmd = atoi(argv[1]);
  79        fcn = atoi(argv[2]);
  80        if (argc == 4) {         /* mdep argument given */
  81                if (cmd != A_REBOOT && cmd != A_SHUTDOWN && cmd != A_DUMP &&
  82                    cmd != A_FREEZE) {
  83                        (void) fprintf(stderr, "%s: mdep argument not "
  84                            "allowed for this cmd value\n", argv[0]);
  85                        (void) fprintf(stderr, Usage, argv[0]);
  86                        return (1);
  87                } else {
  88                        mdep = (uintptr_t)argv[3];
  89                }
  90        }

  92        /* set up audit session and event */
  93        if (adt_start_session(&ah, NULL, ADT_USE_PROC_DATA) != 0) {
  94                (void) fprintf(stderr, "%s: can't start audit session\n",
  95                    argv[0]);
  96        }
  97        switch (cmd) {
  98        case A_SHUTDOWN:
  99                event_id = ADT_uadmin_shutdown;
 100                break;
 101        case A_REBOOT:
 102                event_id = ADT_uadmin_reboot;
 103                break;
 104        case A_DUMP:
 105                event_id = ADT_uadmin_dump;
 106                break;
 107        case A_REMOUNT:
 108                event_id = ADT_uadmin_remount;
 109                break;
 110        case A_FREEZE:
 111                event_id = ADT_uadmin_freeze;
 112                break;
 113        case A_FTRACE:
 114                event_id = ADT_uadmin_ftrace;
 115                break;
 116        case A_CONFIG:
 117                event_id = ADT_uadmin_config;
 118                break;
 119        case A_SWAPCTL:
 120                event_id = ADT_uadmin_swapctl;
 121                break;
 122        case A_INTRD:
 123                event_id = ADT_uadmin_intrd;
 124                break;
 125 #endif /* ! codereview */
 126        default:
 127                event_id = 0;
```

```
128                  }
129              if ((event_id != 0) &&
130                  (event = adt_alloc_event(ah, event_id)) == NULL) {
131                      (void) fprintf(stderr, "%s: can't allocate audit event\n",
132                          argv[0]);
133              }
134              switch (fcn) {
135              case AD_HALT:
136                      fcn_id = ADT_UADMIN_FCN_AD_HALT;
137                      break;
138              case AD_POWEROFF:
139                      fcn_id = ADT_UADMIN_FCN_AD_POWEROFF;
140                      break;
141              case AD_BOOT:
142                      fcn_id = ADT_UADMIN_FCN_AD_BOOT;
143                      break;
144              case AD_IBOOT:
145                      fcn_id = ADT_UADMIN_FCN_AD_IBOOT;
146                      break;
147              case AD_SBOOT:
148                      fcn_id = ADT_UADMIN_FCN_AD_SBOOT;
149                      break;
150              case AD_SIBOOT:
151                      fcn_id = ADT_UADMIN_FCN_AD_SIBOOT;
152                      break;
153              case AD_NOSYNC:
154                      fcn_id = ADT_UADMIN_FCN_AD_NOSYNC;
155                      break;
156              case AD_FASTREBOOT:
157 #ifdef  __i386
158                      fcn_id = ADT_UADMIN_FCN_AD_FASTREBOOT;
159                      mdep = NULL;    /* Ignore all arguments */
160 #else /* __i386 */
161                      fcn = AD_BOOT;
162                      fcn_id = ADT_UADMIN_FCN_AD_BOOT;
163 #endif /* __i386 */
164                      break;
165              case AD_FASTREBOOT_DRYRUN:
166                      fcn_id = ADT_UADMIN_FCN_AD_FASTREBOOT_DRYRUN;
167                      mdep = NULL;    /* Ignore all arguments */
168                      break;
169              default:
170                      fcn_id = 0;
171              }
172              if (cmd == A_FREEZE) {
173                      switch (fcn) {
174                      case AD_SUSPEND_TO_DISK:
175                              fcn_id = ADT_UADMIN_FCN_AD_SUSPEND_TO_DISK;
176                              break;
177                      case AD_CHECK_SUSPEND_TO_DISK:
178                              fcn_id = ADT_UADMIN_FCN_AD_CHECK_SUSPEND_TO_DISK;
179                              break;
180                      case AD_FORCE:
181                              fcn_id = ADT_UADMIN_FCN_AD_FORCE;
182                              break;
183                      case AD_SUSPEND_TO_RAM:
184                              fcn_id = ADT_UADMIN_FCN_AD_SUSPEND_TO_RAM;
185                              break;
186                      case AD_CHECK_SUSPEND_TO_RAM:
187                              fcn_id = ADT_UADMIN_FCN_AD_CHECK_SUSPEND_TO_RAM;
188                              break;
189                      case AD_REUSEINIT:
190                              fcn_id = ADT_UADMIN_FCN_AD_REUSEINIT;
191                              break;
192                      case AD_REUSABLE:
193                              fcn_id = ADT_UADMIN_FCN_AD_REUSABLE;
```

```
194                              break;
195                      case AD_REUSEFINI:
196                              fcn_id = ADT_UADMIN_FCN_AD_REUSEFINI;
197                              break;
198                      }
199              } else if (cmd == A_FTRACE) {
200                      switch (fcn) {
201                      case AD_FTRACE_START:
202                              fcn_id = ADT_UADMIN_FCN_AD_FTRACE_START;
203                              break;
204                      case AD_FTRACE_STOP:
205                              fcn_id = ADT_UADMIN_FCN_AD_FTRACE_STOP;
206                              break;
207                      }
208 #ifdef  __i386
209              } else if (cmd == A_CONFIG) {
210                      uint8_t boot_config = 0;
211                      uint8_t boot_config_ovr = 0;

213                      switch (fcn) {
214                      case AD_UPDATE_BOOT_CONFIG:
215                              fcn_id = ADT_UADMIN_FCN_AD_UPDATE_BOOT_CONFIG;
216                              scf_get_boot_config(&boot_config);
217                              boot_config_ovr = boot_config;
218                              scf_get_boot_config_ovr(&boot_config_ovr);
219                              boot_config &= boot_config_ovr;
220                              mdep = (uintptr_t)(&boot_config);
221                              break;
222                      }
223 #endif /* __i386 */
224              }

226              if (geteuid() == 0) {
227                      if (event != NULL) {
228                              switch (cmd) {
229                              case A_SHUTDOWN:
230                                      event->adt_uadmin_shutdown.fcn = fcn_id;
231                                      event->adt_uadmin_shutdown.mdep = (char *)mdep;
232                                      break;
233                              case A_REBOOT:
234                                      event->adt_uadmin_reboot.fcn = fcn_id;
235                                      event->adt_uadmin_reboot.mdep = (char *)mdep;
236                                      break;
237                              case A_DUMP:
238                                      event->adt_uadmin_dump.fcn = fcn_id;
239                                      event->adt_uadmin_dump.mdep = (char *)mdep;
240                                      break;
241                              case A_REMOUNT:
242                                      /* no parameters */
243                                      break;
244                              case A_FREEZE:
245                                      event->adt_uadmin_freeze.fcn = fcn_id;
246                                      event->adt_uadmin_freeze.mdep = (char *)mdep;
247                                      break;
248                              case A_FTRACE:
249                                      event->adt_uadmin_ftrace.fcn = fcn_id;
250                                      event->adt_uadmin_ftrace.mdep = (char *)mdep;
251                                      break;
252                              case A_CONFIG:
253                                      event->adt_uadmin_config.fcn = fcn_id;
254                                      event->adt_uadmin_config.mdep = (char *)mdep;
255                                      break;
256                              case A_SWAPCTL:
257                                      event->adt_uadmin_swapctl.fcn = fcn_id;
258                                      break;
259                              case A_INTRD:
```

```
260                                    event->adt_uadmin_intrd.fcn = fcn_id;
261                                    break;
262 #endif /* ! codereview */
263                            }

265                            if (adt_put_event(event, ADT_SUCCESS, 0) != 0) {
266                                    (void) fprintf(stderr,
267                                        "%s: can't put audit event\n", argv[0]);
268                            }
269                            /*
270                             * allow audit record to be processed in the kernel
271                             * audit queue
272                             */
273                            wait_for_auqueue();
274                    }

276                    if (closeout_audit(cmd, fcn) == -1)
277                            (void) fprintf(stderr, "%s: can't turn off auditd\n",
278                                argv[0]);

280                    if (cmd == A_SHUTDOWN || cmd == A_REBOOT)
281                            (void) creat(SMF_RST, 0777);
282            }

284            (void) adt_free_event(event);
285            if (uadmin(cmd, fcn, mdep) < 0) {
286                    perror("uadmin");

288                    (void) unlink(SMF_RST);

290                    return (1);
291            }

293            /* If returning from a suspend, audit thaw */
294            if ((cmd == A_FREEZE) &&
295                ((fcn == AD_FORCE) ||
296                (fcn == AD_REUSABLE) ||
297                (fcn == AD_SUSPEND_TO_DISK) ||
298                (fcn == AD_SUSPEND_TO_RAM))) {
299                    if ((event = adt_alloc_event(ah, ADT_uadmin_thaw)) == NULL) {
300                            (void) fprintf(stderr, "%s: can't allocate thaw audit "
301                                "event\n", argv[0]);
302                    }
303                    event->adt_uadmin_thaw.fcn = fcn_id;
304                    if (adt_put_event(event, ADT_SUCCESS, 0) != 0) {
305                            (void) fprintf(stderr, "%s: can't put thaw audit "
306                                "event\n", argv[0]);
307                    }
308                    (void) adt_free_event(event);
309            }
310            (void) adt_end_session(ah);

312            return (0);
313 }

315 static int
316 closeout_audit(int cmd, int fcn)
317 {
318            if (!adt_audit_state(AUC_AUDITING)) {
319                    /* auditd not running, just return */
320                    return (0);
321            }
322            switch (cmd) {
323            case A_SHUTDOWN:
324                    switch (fcn) {
325                    case AD_FASTREBOOT_DRYRUN:
```

```
326                            /* No system discontinuity, don't turn off auditd */
327                            return (0);
328                    default:
329                            break;  /* For all the other shutdown functions */
330                    }
331                    /* FALLTHROUGH */
332            case A_REBOOT:
333            case A_DUMP:
334                    /* system shutting down, turn off auditd */
335                    return (turnoff_auditd());
336            case A_REMOUNT:
337            case A_SWAPCTL:
338            case A_FTRACE:
339            case A_CONFIG:
340                    /* No system discontinuity, don't turn off auditd */
341                    return (0);
342            case A_FREEZE:
343                    switch (fcn) {
344                    case AD_CHECK_SUSPEND_TO_DISK: /* AD_CHECK */
345                    case AD_CHECK_SUSPEND_TO_RAM:
346                    case AD_REUSEINIT:
347                    case AD_REUSEFINI:
348                            /* No system discontinuity, don't turn off auditd */
349                            return (0);
350                    case AD_REUSABLE:
351                    case AD_SUSPEND_TO_DISK:         /* AD_COMPRESS */
352                    case AD_SUSPEND_TO_RAM:
353                    case AD_FORCE:
354                            /* suspend the system, change audit files */
355                            return (change_audit_file());
356                    default:
357                            return (0);     /* not an audit error */
358                    }
359            default:
360                    return (0);     /* not an audit error */
361            }
362 }

364 static int
365 turnoff_auditd(void)
366 {
367            int     rc;
368            int     retries = RETRY_COUNT;

370            if ((rc = (int)fork()) == 0) {
371                    (void) execl("/usr/sbin/audit", "audit", "-T", NULL);
372                    (void) fprintf(stderr, "error disabling auditd: %s\n",
373                        strerror(errno));
374                    _exit(-1);
375            } else if (rc == -1) {
376                    (void) fprintf(stderr, "error disabling auditd: %s\n",
377                        strerror(errno));
378                    return (-1);
379            }

381            /*
382             * wait for auditd to finish its work.  auditd will change the
383             * auditstart from AUC_AUDITING (auditd up and running) to
384             * AUC_NOAUDIT.  Other states are errors, so we're done as well.
385             */
386            do {
387                    int     auditstate;

389                    rc = -1;
390                    if ((auditon(A_GETCOND, (caddr_t)&auditstate,
391                        sizeof (auditstate)) == 0) &&
```

```
 392                         (auditstate == AUC_AUDITING)) {
 393                                 retries--;
 394                                 (void) sleep(1);
 395                         } else {
 396                                 rc = 0;
 397                         }
 398                 } while ((rc != 0) && (retries != 0));

 400         return (rc);
 401 }

 403 static int
 404 change_audit_file(void)
 405 {
 406         pid_t   pid;

 408         if ((pid = fork()) == 0) {
 409                 (void) execl("/usr/sbin/audit", "audit", "-n", NULL);
 410                 (void) fprintf(stderr, "error changing audit files: %s\n",
 411                     strerror(errno));
 412                 _exit(-1);
 413         } else if (pid == -1) {
 414                 (void) fprintf(stderr, "error changing audit files: %s\n",
 415                     strerror(errno));
 416                 return (-1);
 417         } else {
 418                 pid_t   rc;
 419                 int     retries = RETRY_COUNT;

 421                 /*
 422                  * Wait for audit(1M) -n process to complete
 423                  *
 424                  */
 425                 do {
 426                         if ((rc = waitpid(pid, NULL, WNOHANG)) == pid) {
 427                                 return (0);
 428                         } else if (rc == -1) {
 429                                 return (-1);
 430                         } else {
 431                                 (void) sleep(1);
 432                                 retries--;
 433                         }

 435                 } while (retries != 0);
 436         }
 437         return (-1);
 438 }

 440 static void
 441 wait_for_auqueue()
 442 {
 443         au_stat_t       au_stat;
 444         int             retries = 10;

 446         while (retries-- && auditon(A_GETSTAT, (caddr_t)&au_stat, NULL) == 0) {
 447                 if (au_stat.as_enqueue == au_stat.as_written) {
 448                         break;
 449                 }
 450                 (void) sleep(1);
 451         }
 452 }
```

```
*********************************************************
   28357 Thu Jul 25 14:31:01 2013
new/usr/src/lib/libbsm/audit_event.txt
XXX Rearchitect and replace interrupt distribution
*********************************************************
     1 #
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    15 #
    16 # When distributing Covered Code, include this CDDL HEADER in each
    17 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
    18 # If applicable, add the following below this CDDL HEADER, with the
    19 # fields enclosed by brackets "[]" replaced with your own identifying
    20 # information: Portions Copyright [yyyy] [name of copyright owner]
    21 #
    22 # CDDL HEADER END
    23 #
    24 # Audit Event Database
    25 #
    26 # File Format:
    27 #
    28 # event number:event name:event description:event classes (comma separated)
    29 #
    30 # Used to map audit events to audit classes for preselection and post-selection.
    31 # Used by TCB programs that write audit records to preselect audit events
    32 #     based on event to class mappings.
    33 #
    34 # NOTE: several events are obsolete but must continue to be defined here for
    35 # compatibility reasons. Obsolete events are defined in the "no" (invalid)
    36 # class to indicate they will not be generated.  Other events in the "no"
    37 # class which are not obsolete (but are in this class for other reasons),
    38 # are individually noted with a comment for explanation.
    39 #
    40 # System Adminstrators: Do NOT modify or add events with an event number less
    41 #   than 32768. These are reserved by the system.
    42 #
    43 #      0          Reserved as an invalid event number.
    44 #      1 - 2047  Reserved for the Solaris Kernel events.
    45 #   2048 - 32767 Reserved for the Solaris TCB programs.
    46 # 32768 - 65535 Available for third party TCB applications.
    47 #
    48 #
    49 # Allocation of reserved kernel events:
    50 # (NOTE: the kernel event table, and possibly MAX_KEVENTS, must be updated
    51 # in audit_kevents.h when changes are made to kernel events.)
    52 #           1 -   511   allocated for Solaris
    53 #         512 -  2047   (reserved but not allocated)
    54 #
    55 # Allocation of user level audit events:
    56 #        2048 -  5999   (reserved but not allocated)
    57 #        6000 -  9999   allocated for Solaris
    58 #       10000 - 32767   (reserved but not allocated)
    59 #       32768 - 65535   (Available for third party TCB applications)
    60 #
    61 #
```

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    62 # kernel audit events
    63 #           1 -   511   allocated for Solaris
    64 #
    65 0:AUE_NULL:indir system call:no
    66 1:AUE_EXIT:exit(2):ps
    67 2:AUE_FORKALL:forkall(2):ps
    68 # AUE_OPEN is a placeholder and will not be generated
    69 3:AUE_OPEN:open(2) - place holder:no
    70 4:AUE_CREAT:creat(2):no
    71 5:AUE_LINK:link(2):fc
    72 6:AUE_UNLINK:unlink(2):fd
    73 7:AUE_EXEC:exec(2):no
    74 8:AUE_CHDIR:chdir(2):pm
    75 9:AUE_MKNOD:mknod(2):fc
    76 10:AUE_CHMOD:chmod(2):fm
    77 11:AUE_CHOWN:chown(2):fm
    78 12:AUE_UMOUNT:umount(2) - old version:as
    79 13:AUE_JUNK:junk:no
    80 14:AUE_ACCESS:access(2):fa
    81 15:AUE_KILL:kill(2):pm
    82 16:AUE_STAT:stat(2):fa
    83 17:AUE_LSTAT:lstat(2):fa
    84 18:AUE_ACCT:acct(2):as
    85 19:AUE_MCTL:mctl(2):no
    86 20:AUE_REBOOT:reboot(2):no
    87 21:AUE_SYMLINK:symlink(2):fc
    88 22:AUE_READLINK:readlink(2):fr
    89 23:AUE_EXECVE:execve(2):ps,ex
    90 24:AUE_CHROOT:chroot(2):pm
    91 25:AUE_VFORK:vfork(2):ps
    92 26:AUE_SETGROUPS:setgroups(2):pm
    93 27:AUE_SETPGRP:setpgrp(2):pm
    94 28:AUE_SWAPON:swapon(2):no
    95 29:AUE_SETHOSTNAME:sethostname(2):no
    96 30:AUE_FCNTL:fcntl(2):fm
    97 31:AUE_SETPRIORITY:setpriority(2):no
    98 32:AUE_CONNECT:connect(2):nt
    99 33:AUE_ACCEPT:accept(2):nt
   100 34:AUE_BIND:bind(2):nt
   101 35:AUE_SETSOCKOPT:setsockopt(2):nt
   102 36:AUE_VTRACE:vtrace(2):no
   103 37:AUE_SETTIMEOFDAY:settimeofday(2):no
   104 38:AUE_FCHOWN:fchown(2):fm
   105 39:AUE_FCHMOD:fchmod(2):fm
   106 40:AUE_SETREUID:setreuid(2):pm
   107 41:AUE_SETREGID:setregid(2):pm
   108 42:AUE_RENAME:rename(2):fc,fd
   109 43:AUE_TRUNCATE:truncate(2):no
   110 44:AUE_FTRUNCATE:ftruncate(2):no
   111 45:AUE_FLOCK:flock(2):no
   112 46:AUE_SHUTDOWN:shutdown(2):nt
   113 47:AUE_MKDIR:mkdir(2):fc
   114 48:AUE_RMDIR:rmdir(2):fd
   115 49:AUE_UTIMES:utimes(2):fm
   116 50:AUE_ADJTIME:adjtime(2):as
   117 51:AUE_SETRLIMIT:setrlimit(2):ua
   118 52:AUE_KILLPG:killpg(2):no
   119 53:AUE_NFS_SVC:nfs_svc(2):no
   120 54:AUE_STATFS:statfs(2):fa
   121 55:AUE_FSTATFS:fstatfs(2):fa
   122 56:AUE_UNMOUNT:unmount(2):no
   123 57:AUE_ASYNC_DAEMON:async_daemon(2):no
   124 58:AUE_NFS_GETFH:nfs_getfh(2):no
   125 59:AUE_SETDOMAINNAME:setdomainname(2):no
   126 60:AUE_QUOTACTL:quotactl(2):no
   127 61:AUE_EXPORTFS:exportfs(2):no
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128 62:AUE_MOUNT:mount(2):as
129 # AUE_SEMSYS is a placeholder and will not be generated
130 63:AUE_SEMSYS:semsys(2) - place holder:no
131 # AUE_MSGSYS is a placeholder and will not be generated
132 64:AUE_MSGSYS:msgsys(2) - place holder:no
133 # AUE_SHMSYS is a placeholder and will not be generated
134 65:AUE_SHMSYS:shmsys(2) - place holder:no
135 66:AUE_BSMSYS:bsmsys(2) - place holder:no
136 67:AUE_RFSSYS:rfssys(2) - place holder:no
137 68:AUE_FCHDIR:fchdir(2):pm
138 69:AUE_FCHROOT:fchroot(2):pm
139 70:AUE_VPIXSYS:vpixsys(2) - place holder:no
140 71:AUE_PATHCONF:pathconf(2):fa
141 72:AUE_OPEN_R:open(2) - read:fr
142 73:AUE_OPEN_RC:open(2) - read,creat:fc,fr
143 74:AUE_OPEN_RT:open(2) - read,trunc:fd,fr
144 75:AUE_OPEN_RTC:open(2) - read,creat,trunc:fc,fd,fr
145 76:AUE_OPEN_W:open(2) - write:fw
146 77:AUE_OPEN_WC:open(2) - write,creat:fc,fw
147 78:AUE_OPEN_WT:open(2) - write,trunc:fd,fw
148 79:AUE_OPEN_WTC:open(2) - write,creat,trunc:fc,fd,fw
149 80:AUE_OPEN_RW:open(2) - read,write:fr,fw
150 81:AUE_OPEN_RWC:open(2) - read,write,creat:fc,fw,fr
151 82:AUE_OPEN_RWT:open(2) - read,write,trunc:fd,fr,fw
152 83:AUE_OPEN_RWTC:open(2) - read,write,creat,trunc:fc,fd,fw,fr
153 84:AUE_MSGCTL:msgctl(2) - illegal command:ip
154 85:AUE_MSGCTL_RMID:msgctl(2) - IPC_RMID command:ip
155 86:AUE_MSGCTL_SET:msgctl(2) - IPC_SET command:ip
156 87:AUE_MSGCTL_STAT:msgctl(2) - IPC_STAT command:ip
157 88:AUE_MSGGET:msgget(2):ip
158 89:AUE_MSGRCV:msgrcv(2):ip
159 90:AUE_MSGSND:msgsnd(2):ip
160 91:AUE_SHMCTL:shmctl(2) - illegal command:ip
161 92:AUE_SHMCTL_RMID:shmctl(2) - IPC_RMID command:ip
162 93:AUE_SHMCTL_SET:shmctl(2) - IPC_SET command:ip
163 94:AUE_SHMCTL_STAT:shmctl(2) - IPC_STAT command:ip
164 95:AUE_SHMGET:shmget(2):ip
165 96:AUE_SHMAT:shmat(2):ip
166 97:AUE_SHMDT:shmdt(2):ip
167 98:AUE_SEMCTL:semctl(2) - illegal command:ip
168 99:AUE_SEMCTL_RMID:semctl(2) - IPC_RMID command:ip
169 100:AUE_SEMCTL_SET:semctl(2) - IPC_SET command:ip
170 101:AUE_SEMCTL_STAT:semctl(2) - IPC_STAT command:ip
171 102:AUE_SEMCTL_GETNCNT:semctl(2) - GETNCNT command:ip
172 103:AUE_SEMCTL_GETPID:semctl(2) - GETPID command:ip
173 104:AUE_SEMCTL_GETVAL:semctl(2) - GETVAL command:ip
174 105:AUE_SEMCTL_GETALL:semctl(2) - GETALL command:ip
175 106:AUE_SEMCTL_GETZCNT:semctl(2) - GETZCNT command:ip
176 107:AUE_SEMCTL_SETVAL:semctl(2) - SETVAL command:ip
177 108:AUE_SEMCTL_SETALL:semctl(2) - SETALL command:ip
178 109:AUE_SEMGET:semget(2):ip
179 110:AUE_SEMOP:semop(2):ip
180 111:AUE_CORE:process dumped core:fc
181 112:AUE_CLOSE:close(2):cl
182 113:AUE_SYSTEMBOOT:system booted:na
183 114:AUE_ASYNC_DAEMON_EXIT:async_daemon(2) exited:no
184 115:AUE_NFSSVC_EXIT:nfssvc(2) exited:no
185 116:AUE_PFEXEC:execve(2) with pfexec enabled:ps,ex,ua,as
186 117:AUE_OPEN_S:open(2) - search:fr
187 118:AUE_OPEN_E:open(2) - exec:fr

189 130:AUE_GETAUID:getauid(2):aa
190 131:AUE_SETAUID:setauid(2):aa
191 132:AUE_GETAUDIT:getaudit(2):aa
192 133:AUE_SETAUDIT:setaudit(2):aa
193 134:AUE_GETUSERAUDIT:getuseraudit(2):no
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194 135:AUE_SETUSERAUDIT:setuseraudit(2):no
195 # AUE_AUDITSVC is a placeholder and will not be generated
196 136:AUE_AUDITSVC:auditsvc(2) - place holder:no
197 # AUE_AUDITON is a placeholder and will not be generated
198 138:AUE_AUDITON:auditon(2) - place holder:no
199 139:AUE_AUDITON_GTERMID:auditon(2) - GETTERMID command:no
200 140:AUE_AUDITON_STERMID:auditon(2) - SETTERMID command:no
201 141:AUE_AUDITON_GPOLICY:auditon(2) - get audit policy flags:aa
202 142:AUE_AUDITON_SPOLICY:auditon(2) - set audit policy flags:as
203 143:AUE_AUDITON_GESTATE:auditon(2) - GESTATE command:no
204 144:AUE_AUDITON_SESTATE:auditon(2) - SESTATE command:no
205 145:AUE_AUDITON_GQCTRL:auditon(2) - get queue control parameters:as
206 146:AUE_AUDITON_SQCTRL:auditon(2) - set queue control parameters:as
207 147:AUE_GETKERNSTATE:getkernstate(2):no
208 148:AUE_SETKERNSTATE:setkernstate(2):no
209 149:AUE_GETPORTAUDIT:getportaudit(2):no
210 150:AUE_AUDITSTAT:auditstat(2):no
211 153:AUE_ENTERPROM:enter prom:na
212 154:AUE_EXITPROM:exit prom:na
213 158:AUE_IOCTL:ioctl(2):io
214 173:AUE_ONESIDE:one-sided session record:no
215 174:AUE_MSGGETL:msggetl(2):no
216 175:AUE_MSGRCVL:msgrcvl(2):no
217 176:AUE_MSGSNDL:msgsndl(2):no
218 177:AUE_SEMGETL:semgetl(2):no
219 178:AUE_SHMGETL:shmgetl(2):no
220 183:AUE_SOCKET:socket(2):nt
221 184:AUE_SENDTO:sendto(2):nt
222 # AUE_PIPE is a potentially very high-volume event, use with caution
223 185:AUE_PIPE:pipe(2):no
224 186:AUE_SOCKETPAIR:socketpair(2):no
225 187:AUE_SEND:send(2):no
226 188:AUE_SENDMSG:sendmsg(2):nt
227 189:AUE_RECV:recv(2):no
228 190:AUE_RECVMSG:recvmsg(2):nt
229 191:AUE_RECVFROM:recvfrom(2):nt
230 # AUE_READ is a potentially very high-volume event, use with caution
231 192:AUE_READ:read(2):no
232 193:AUE_GETDENTS:getdents(2):no
233 194:AUE_LSEEK:lseek(2):no
234 # AUE_WRITE is a potentially very high-volume event, use with caution
235 195:AUE_WRITE:write(2):no
236 196:AUE_WRITEV:writev(2):no
237 197:AUE_NFS:nfs server:no
238 198:AUE_READV:readv(2):no
239 199:AUE_OSTAT:old stat(2):no
240 200:AUE_SETUID:setuid(2):pm
241 201:AUE_STIME:old stime(2):as
242 202:AUE_UTIME:old utime(2):no
243 203:AUE_NICE:old nice(2):pm
244 204:AUE_OSETPGRP:old setpgrp(2):no
245 205:AUE_SETGID:old setgid(2):pm
246 206:AUE_READL:readl(2):no
247 207:AUE_READVL:readvl(2):no
248 208:AUE_FSTAT:fstat(2):no
249 209:AUE_DUP2:dup2(2):no
250 # AUE_MMAP is a potentially very high-volume event, use with caution
251 210:AUE_MMAP:mmap(2):no
252 # AUE_AUDIT is a potentially very high-volume event, use with caution
253 211:AUE_AUDIT:audit(2):no
254 212:AUE_PRIOCNTLSYS:priocntlsys(2):pm
255 213:AUE_MUNMAP:munmap(2):cl
256 214:AUE_SETEGID:setegid(2):pm
257 215:AUE_SETEUID:seteuid(2):pm
258 216:AUE_PUTMSG:putmsg(2):nt
259 217:AUE_GETMSG:getmsg(2):nt
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260 218:AUE_PUTPMSG:putpmsg(2):nt
261 219:AUE_GETPMSG:getpmsg(2):nt
262 # AUE_AUDITSYS is a placeholder and will not be generated
263 220:AUE_AUDITSYS:audit system calls place holder:no
264 221:AUE_AUDITON_GETKMASK:auditon(2) - get kernel mask:aa
265 222:AUE_AUDITON_SETKMASK:auditon(2) - set kernel mask:as
266 223:AUE_AUDITON_GETCWD:auditon(2) - get current working directory:aa,as
267 224:AUE_AUDITON_GETCAR:auditon(2) - get current active root:aa,as
268 225:AUE_AUDITON_GETSTAT:auditon(2) - get audit statistics:as
269 226:AUE_AUDITON_SETSTAT:auditon(2) - reset audit statistics:as
270 227:AUE_AUDITON_SETUMASK:auditon(2) - set mask per audit uid:as
271 228:AUE_AUDITON_SETSMASK:auditon(2) - set mask per session ID:as
272 229:AUE_AUDITON_GETCOND:auditon(2) - get audit state:aa
273 230:AUE_AUDITON_SETCOND:auditon(2) - set audit state:as
274 231:AUE_AUDITON_GETCLASS:auditon(2) - get event class:aa,as
275 232:AUE_AUDITON_SETCLASS:auditon(2) - set event class:as
276 233:AUE_FUSERS:utssys(2) - fusers:fa
277 234:AUE_STATVFS:statvfs(2):fa
278 235:AUE_XSTAT:xstat(2):no
279 236:AUE_LXSTAT:lxstat(2):no
280 237:AUE_LCHOWN:lchown(2):fm
281 238:AUE_MEMCNTL:memcntl(2):ot
282 239:AUE_SYSINFO:sysinfo(2):as
283 240:AUE_XMKNOD:xmknod(2):no
284 241:AUE_FORK1:fork1(2):ps
285 # AUE_MODCTL is a placeholder and will not be generated
286 242:AUE_MODCTL:modctl(2) system call place holder:no
287 243:AUE_MODLOAD:modctl(2) - load module:as
288 244:AUE_MODUNLOAD:modctl(2) - unload module:as
289 # AUE_MODCONFIG is a place holder and will not be generated
290 245:AUE_MODCONFIG:modctl(2) - no longer generated:no
291 246:AUE_MODADDMAJ:modctl(2) - bind module:as
292 247:AUE_SOCKACCEPT:getmsg-accept:nt
293 248:AUE_SOCKCONNECT:putmsg-connect:nt
294 249:AUE_SOCKSEND:putmsg-send:nt
295 250:AUE_SOCKRECEIVE:getmsg-receive:nt
296 251:AUE_ACLSET:acl(2) - SETACL command:fm
297 252:AUE_FACLSET:facl(2) - SETACL command:fm
298 # AUE_DOORFS is a placeholder and will not be generated
299 253:AUE_DOORFS:doorfs(2) - system call place holder:no
300 254:AUE_DOORFS_DOOR_CALL:doorfs(2) - DOOR_CALL:ip
301 255:AUE_DOORFS_DOOR_RETURN:doorfs(2) - DOOR_RETURN:ip
302 256:AUE_DOORFS_DOOR_CREATE:doorfs(2) - DOOR_CREATE:ip
303 257:AUE_DOORFS_DOOR_REVOKE:doorfs(2) - DOOR_REVOKE:ip
304 258:AUE_DOORFS_DOOR_INFO:doorfs(2) - DOOR_INFO:ip
305 259:AUE_DOORFS_DOOR_CRED:doorfs(2) - DOOR_CRED:ip
306 260:AUE_DOORFS_DOOR_BIND:doorfs(2) - DOOR_BIND:ip
307 261:AUE_DOORFS_DOOR_UNBIND:doorfs(2) - DOOR_UNBIND:ip
308 262:AUE_P_ONLINE:p_online(2):as
309 263:AUE_PROCESSOR_BIND:processor_bind(2):as
310 264:AUE_INST_SYNC:inst_sync(2):as
311 265:AUE_SOCKCONFIG:configure socket:nt
312 266:AUE_SETAUDIT_ADDR:setaudit_addr(2):aa
313 267:AUE_GETAUDIT_ADDR:getaudit_addr(2):aa
314 268:AUE_UMOUNT2:umount2(2):as
315 # AUE_FSAT and all AUE_OPENAT_* codes are obsolete and will not be generated
316 269:AUE_FSAT:fsat(2) - place holder:no
317 270:AUE_OPENAT_R:openat(2) - read:no
318 271:AUE_OPENAT_RC:openat(2) - read,creat:no
319 272:AUE_OPENAT_RT:openat(2) - read,trunc:no
320 273:AUE_OPENAT_RTC:openat(2) - read,creat,trunc:no
321 274:AUE_OPENAT_W:openat(2) - write:no
322 275:AUE_OPENAT_WC:openat(2) - write,creat:no
323 276:AUE_OPENAT_WT:openat(2) - write,trunc:no
324 277:AUE_OPENAT_WTC:openat(2) - write,creat,trunc:no
325 278:AUE_OPENAT_RW:openat(2) - read,write:no
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326 279:AUE_OPENAT_RWC:openat(2) - read,write,creat:no
327 280:AUE_OPENAT_RWT:openat(2) - read,write,trunc:no
328 281:AUE_OPENAT_RWTC:openat(2) - read,write,creat,trunc:no
329 282:AUE_RENAMEAT:renameat(2):no
330 283:AUE_FSTATAT:fstatat(2):no
331 284:AUE_FCHOWNAT:fchownat(2):no
332 285:AUE_FUTIMESAT:futimesat(2):no
333 286:AUE_UNLINKAT:unlinkat(2):no
334 287:AUE_CLOCK_SETTIME:clock_settime(3RT):as
335 288:AUE_NTP_ADJTIME:ntp_adjtime(2):as
336 289:AUE_SETPPRIV:setppriv(2):pm
337 290:AUE_MODDEVPLCY:modctl(2) - configure device policy:as
338 291:AUE_MODADDPRIV:modctl(2) - configure additional privilege:as
339 292:AUE_CRYPTOADM:kernel cryptographic framework:as
340 293:AUE_CONFIGKSSL:configure kernel SSL:as
341 294:AUE_BRANDSYS:brandsys(2):ot
342 295:AUE_PF_POLICY_ADDRULE:Add IPsec policy rule:as
343 296:AUE_PF_POLICY_DELRULE:Delete IPsec policy rule:as
344 297:AUE_PF_POLICY_CLONE:Clone IPsec policy:as
345 298:AUE_PF_POLICY_FLIP:Flip IPsec policy:as
346 299:AUE_PF_POLICY_FLUSH:Flush IPsec policy rules:as
347 300:AUE_PF_POLICY_ALGS:Update IPsec algorithms:as
348 # AUE_PORTFS is a placeholder and won't be generated.
349 301:AUE_PORTFS:portfs(2) - file events source - place holder:no
350 #
351 302:AUE_LABELSYS_TNRH:tnrh(2) - config TN remote host cache:as
352 303:AUE_LABELSYS_TNRHTP:tnrhtp(2) - config TN remote host template cache:as
353 304:AUE_LABELSYS_TNMLP:tnmlp(2) - config TN multi-level port entry:as
354 #
355 305:AUE_PORTFS_ASSOCIATE:portfs(2) - file events source - PORT_ASSOCIATE:fa
356 306:AUE_PORTFS_DISSOCIATE:portfs(2) - file events source - PORT_DISSOCIATE:fa
357 #
358 307:AUE_SETSID:setsid(2):pm
359 308:AUE_SETPGID:setpgid(2):pm
360 309:AUE_FACCESSAT:faccessat(2):no
361 310:AUE_AUDITON_GETAMASK:auditon(2) - get default user preselection mask:aa
362 311:AUE_AUDITON_SETAMASK:auditon(2) - set default user preselection mask:as
363 #
364 # user level audit events
365 #       2048 -  6143    Reserved
366 #
367 #       6000 -  7999    allocated for Solaris
368 #
369 6144:AUE_at_create:at-create atjob:ua
370 6145:AUE_at_delete:at-delete atjob (at or atrm):ua
371 6146:AUE_at_perm:at-permission:no
372 6147:AUE_cron_invoke:cron-invoke:ua
373 6148:AUE_crontab_create:crontab-crontab created:ua
374 6149:AUE_crontab_delete:crontab-crontab deleted:ua
375 6150:AUE_crontab_perm:crontab-persmisson:no
376 6151:AUE_inetd_connect:inetd connect:na
377 6152:AUE_login:login - local:lo
378 6153:AUE_logout:logout:lo
379 6154:AUE_telnet:login - telnet:lo
380 6155:AUE_rlogin:login - rlogin:lo
381 6156:AUE_mountd_mount:mount:na
382 6157:AUE_mountd_umount:unmount:na
383 6158:AUE_rshd:rsh access:lo
384 6159:AUE_su:su:lo
385 6160:AUE_halt_solaris:halt(1m):ss
386 6161:AUE_reboot_solaris:reboot(1m):ss
387 6162:AUE_rexecd:rexecd:lo
388 6163:AUE_passwd:passwd:lo
389 6164:AUE_rexd:rexd:lo
390 6165:AUE_ftpd:ftp access:lo
391 6166:AUE_init_solaris:init(1m):ss
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392 6167:AUE_uadmin_solaris:uadmin(1m):no
393 6168:AUE_shutdown_solaris:shutdown(1b):ss
394 6169:AUE_poweroff_solaris:poweroff(1m):ss
395 6170:AUE_crontab_mod:crontab-modify:ua
396 6171:AUE_ftpd_logout:ftp logout:lo
397 6172:AUE_ssh:login - ssh:lo
398 6173:AUE_role_login:role login:lo
399 6180:AUE_prof_cmd:profile command:ua,as
400 6181:AUE_filesystem_add:add filesystem:as
401 6182:AUE_filesystem_delete:delete filesystem:as
402 6183:AUE_filesystem_modify:modify filesystem:as
403 6184:AUE_network_add:add network attributes:as
404 6185:AUE_network_delete:delete network attributes:as
405 6186:AUE_network_modify:modify network attributes:as
406 6187:AUE_printer_add:add printer:as
407 6188:AUE_printer_delete:delete printer:as
408 6189:AUE_printer_modify:modify printer:as
409 6190:AUE_scheduledjob_add:add scheduled job:ua
410 6191:AUE_scheduledjob_delete:delete scheduled job:ua
411 6192:AUE_scheduledjob_modify:modify scheduled job:ua
412 6193:AUE_serialport_add:add serial port:as
413 6194:AUE_serialport_delete:delete serial port:as
414 6195:AUE_serialport_modify:modify serial port:as
415 6196:AUE_usermgr_add:add user/user attributes:ua
416 6197:AUE_usermgr_delete:delete user/user attributes:ua
417 6198:AUE_usermgr_modify:modify user/user attributes:ua
418 6199:AUE_uauth:authorization used:ua,as
419 6200:AUE_allocate_succ:allocate-device success:ot
420 6201:AUE_allocate_fail:allocate-device failure:ot
421 6202:AUE_deallocate_succ:deallocate-device success:ot
422 6203:AUE_deallocate_fail:deallocate-device failure:ot
423 6205:AUE_listdevice_succ:allocate-list devices success:ot
424 6206:AUE_listdevice_fail:allocate-list devices failure:ot
425 6207:AUE_create_user:create user:no
426 6208:AUE_modify_user:modify user:no
427 6209:AUE_delete_user:delete user:no
428 6210:AUE_disable_user:disable user:no
429 6211:AUE_enable_user:enable user:no
430 6212:AUE_newgrp_login:newgrp login:lo
431 6213:AUE_admin_authenticate:admin login:lo
432 6214:AUE_kadmind_auth:authenticated kadmind request:ua
433 6215:AUE_kadmind_unauth:unauthenticated kadmind req:ua
434 6216:AUE_krb5kdc_as_req:kdc authentication svc request:ap
435 6217:AUE_krb5kdc_tgs_req:kdc tkt-grant svc request:ap
436 6218:AUE_krb5kdc_tgs_req_2ndtktmm:kdc tgs 2ndtkt mismtch:ap
437 6219:AUE_krb5kdc_tgs_req_alt_tgt:kdc tgs issue alt tgt:ap
438 6220:AUE_smserverd:smserverd:ot
439 6221:AUE_screenlock:screenlock - lock:lo
440 6222:AUE_screenunlock:screenlock - unlock:lo
441 6223:AUE_zone_state:zoneadmd:ss
442 6224:AUE_inetd_copylimit:inetd copylimit:na
443 6225:AUE_inetd_failrate:inetd failrate:na
444 6226:AUE_inetd_ratelimit:inetd ratelimit:na
445 6227:AUE_zlogin:login - zlogin:lo
446 6228:AUE_su_logout:su logout:lo
447 6229:AUE_role_logout:role logout:lo
448 6230:AUE_attach:attach device:ot
449 6231:AUE_detach:detach device:ot
450 6232:AUE_remove:remove/eject device:ot
451 6233:AUE_pool_import:import device into pool:ot
452 6234:AUE_pool_export:export device from pool:ot
453 6235:AUE_dladm_create_secobj:create network security object:as,cy
454 6236:AUE_dladm_delete_secobj:delete network security object:as,cy
455 6237:AUE_uadmin_shutdown:uadmin(1m) - shutdown:ss
456 6238:AUE_uadmin_reboot:uadmin(1m) - reboot:ss
457 6239:AUE_uadmin_dump:uadmin(1m) - dump:ss
```

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458 6240:AUE_uadmin_freeze:uadmin(1m) - freeze:ss
459 6241:AUE_uadmin_remount:uadmin(1m) - remount:ss
460 6242:AUE_uadmin_ftrace:uadmin(1m) - ftrace:ss
461 6243:AUE_uadmin_swapctl:uadmin(1m) - swapctl:ss
462 6244:AUE_smbd_session:smbd(1m) session setup:lo
463 6245:AUE_smbd_logoff:smbd(1m) session logoff:lo
464 6246:AUE_vscan_quarantine:vscand(1m) quarantine infected file:na
465 6247:AUE_ndmp_connect:ndmp connect:na
466 6248:AUE_ndmp_disconnect:ndmp disconnect:na
467 6249:AUE_ndmp_backup:ndmp backup:na
468 6250:AUE_ndmp_restore:ndmp restore:na
469 6251:AUE_cpu_ondemand:set ondemand CPU freq governor:ss
470 6252:AUE_cpu_performance:set max CPU freq governor:ss
471 6253:AUE_cpu_threshold:set CPU freq threshold:ss
472 6254:AUE_uadmin_thaw:uadmin(1m) - thaw after freeze:ss,na
473 6255:AUE_uadmin_config:uadmin(1m) - config:ss

475 #
476 # SMF(5) svc.configd events (svcadm(1M) related)
477 #
478 6260:AUE_smf_enable:persistently enable service instance:ss
479 6261:AUE_smf_tmp_enable:temporarily enable service instance:ss
480 6262:AUE_smf_disable:persistently disable service instance:ss
481 6263:AUE_smf_tmp_disable:temporarily disable service instance:ss
482 6264:AUE_smf_restart:restart service instance:ss
483 6265:AUE_smf_refresh:refresh service instance:ss
484 6266:AUE_smf_clear:clear service instance state:ss
485 6267:AUE_smf_degrade:set service instance degraded state:ss
486 6268:AUE_smf_immediate_degrade:immediately set service instance degraded state:s
487 6269:AUE_smf_maintenance:set service instance persistent maintenance state:ss
488 6270:AUE_smf_immediate_maintenance:immediately set service instance persistent m
489 6271:AUE_smf_immtmp_maintenance:immediately set service instance temporary maint
490 6272:AUE_smf_tmp_maintenance:set service instance maintenance temporary state:ss
491 6273:AUE_smf_milestone:set service management facility milestone:ss
492 #
493 # SMF(5) svc.configd miscellaneous events
494 #
495 6275:AUE_smf_read_prop:read restricted access property value:as
496 #
497 # SMF(5) svc.configd events (svccfg(1M) related)
498 #
499 6280:AUE_smf_create:create service instance object:as
500 6281:AUE_smf_delete:delete service instance object:as
501 6282:AUE_smf_create_pg:create persistent service property group:as
502 6283:AUE_smf_create_npg:create non-persistent service property group:as
503 6284:AUE_smf_delete_pg:delete persistent service property group:as
504 6285:AUE_smf_delete_npg:delete non-persistent service property group:as
505 6286:AUE_smf_create_snap:create repository snapshot:as
506 6287:AUE_smf_delete_snap:delete repository snapshot:as
507 6288:AUE_smf_attach_snap:attach repository snapshot:as
508 6289:AUE_smf_annotation:annotate transaction:as,ss
509 6290:AUE_smf_create_prop:create service instance property:as
510 6291:AUE_smf_change_prop:change service instance property:as
511 6292:AUE_smf_delete_prop:delete service instance property:as
512 #
513 # nwamd(1M) events
514 #
515 6300:AUE_nwam_enable:enable nwam profile object:ss
516 6301:AUE_nwam_disable:disable nwam profile object:ss
517 #
518 # ilbd(1M) events
519 #
520 6310:AUE_ilb_create_healthcheck:create ILB health check:as
521 6311:AUE_ilb_delete_healthcheck:delete ILB health check:as
522 6312:AUE_ilb_create_rule:create ILB rule:as
523 6313:AUE_ilb_delete_rule:delete ILB rule:as
```

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 524 6314:AUE_ilb_disable_rule:disable ILB rule:as
 525 6315:AUE_ilb_enable_rule:enable ILB rule:as
 526 6316:AUE_ilb_add_server:add ILB server:as
 527 6317:AUE_ilb_disable_server:disable ILB server:as
 528 6318:AUE_ilb_enable_server:enable ILB server:as
 529 6319:AUE_ilb_remove_server:remove ILB server:as
 530 6320:AUE_ilb_create_servergroup:create ILB server group:as
 531 6321:AUE_ilb_delete_servergroup:delete ILB server group:as
 532 #
 533 # netcfgd(1M) events
 534 #
 535 6330:AUE_netcfg_update:create or modify configuration object:ss
 536 6331:AUE_netcfg_remove:remove configuration object from repository:ss
 537 #
 538 # TCSD(8) events
 539 #
 540 6400:AUE_tpm_takeownership:take ownership of TPM:as
 541 6401:AUE_tpm_clearowner:clear ownership of TPM:as
 542 6402:AUE_tpm_setoperatorauth:set TPM operator authorization:as
 543 6403:AUE_tpm_setownerinstall:set TPM ownership flag:as
 544 6404:AUE_tpm_selftestfull:test all TPM protected capabilities:as
 545 6405:AUE_tpm_certifyselftest:perform full TPM self-test:as
 546 6406:AUE_tpm_continueselftest:complete TPM self-test:as
 547 6407:AUE_tpm_ownersetdisable:change the status of TPM disable flag:as
 548 6408:AUE_tpm_ownerclear:perform the clear operation under TPM owner auth:as
 549 6409:AUE_tpm_disableownerclear:disable TPM_OwnerClear command permanently:as
 550 6410:AUE_tpm_forceclear:perform TPM clear operation under physical access:as
 551 6411:AUE_tpm_disableforceclear:disable ForceClear execution until next startup:a
 552 6412:AUE_tpm_physicaldisable:disable TPM physical presence:as
 553 6413:AUE_tpm_physicalenable:enable TPM physical presence:as
 554 6414:AUE_tpm_physicaldeactivate:set TPM deactivated flag:as
 555 6415:AUE_tpm_settempdeactivated:set volatile TPM deactivated flag to TRUE:as
 556 6416:AUE_tpm_settempdeactivated2:set volatile TPM deactivated flag TRUE with aut
 557 6417:AUE_tpm_physicalpresence:set the TPM physical presence flag:as
 558 6418:AUE_tpm_fieldupgrade:update TPM protected capabilities:as
 559 6419:AUE_tpm_resetlockvalue:reset TPM failed authorization attempt lock:as
 560 #
 561 # hotplugd(1m) events
 562 #
 563 6500:AUE_hotplug_state:change hotplug connection state:ss
 564 6501:AUE_hotplug_set:set hotplug bus private options:ss
 565
 566 #
 567 # Trusted Extensions events:
 568 #
 569 9035:AUE_sl_change:Workspace label change:ap
 570 9036:AUE_file_relabel:relabel file:fm
 571 9037:AUE_file_copy:file copy:fm
 572 9038:AUE_file_move:file move:no
 573 9039:AUE_sel_mgr_xfer:selection manager transfer:fm
 574 9101:AUE_ClientConnect:client connection to x server:lo
 575 9102:AUE_ClientDisconnect:client disconn. from x server:lo
 576 9120:AUE_ChangeProperty:XChangeProperty(3X11):xc
 577 9121:AUE_DeleteProperty:XDeleteProperty(3X11):xc
 578 9137:AUE_GrabServer:XGrabServer(3X11):ot
 579 9138:AUE_UngrabServer:XUngrabServer(3X11):ot
 580 9146:AUE_SetFontPath:XSetFontPath(3X11):ot
 581 9173:AUE_InstallColormap:XInstallColormap(3X11):ot
 582 9174:AUE_UninstallColormap:XUninstallColormap(3X11):xp
 583 9193:AUE_SetScreenSaver:XSetScreenSaver(3X11):xp
 584 9194:AUE_ChangeHosts:XChangeHosts(3X11):ot
 585 9195:AUE_SetAccessControl:XSetAccessControl(3X11):xp
 586 9196:AUE_SetCloseDownMode:XSetCloseDownMode(3X11):xs
 587 9197:AUE_KillClient:XKillClient(3X11):xc
 588 9202:AUE_XExtensions:X server extensions:xp
 589 9103:AUE_CreateWindow:XCreateWindow(3X11):xc
```

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 590 9104:AUE_ChangeWindowAttributes:XChangeWindowAttributes(3X11):xp
 591 9105:AUE_GetWindowAttributes:XGetWindowAttributes(3X11):xp
 592 9106:AUE_DestroyWindow:XDestroyWindow(3X11):xc
 593 9107:AUE_DestroySubwindows:XDestroySubwindows(3X11):xc
 594 9108:AUE_ChangeSaveSet:XChangeSaveSet(3X11):xp
 595 9109:AUE_ReparentWindow:XReparentWindow(3X11):xp
 596 9110:AUE_MapWindow:XMapWindow(3X11):xp
 597 9111:AUE_MapSubwindows:XMapSubwindows(3X11):xp
 598 9112:AUE_UnmapWindow:XUnmapWindow(3X11):xp
 599 9113:AUE_UnmapSubwindows:XUnmapSubwindows(3X11):xp
 600 9114:AUE_ConfigureWindow:XConfigureWindow(3X11):xp
 601 9115:AUE_CirculateWindow:XCirculateWindow(3X11):xp
 602 9116:AUE_GetGeometry:XGetGeometry(3X11):xp
 603 9117:AUE_QueryTree:XQueryTree(3X11):xp
 604 9118:AUE_InternAtom:XInternAtom(3X11):xs
 605 9119:AUE_GetAtomName:XGetAtomName(3X11):xs
 606 9122:AUE_GetProperty:XGetProperty(3X11):xp
 607 9123:AUE_ListProperties:XListProperties(3X11):xp
 608 9124:AUE_SetSelectionOwner:XSetSelectionOwner(3X11):xp
 609 9125:AUE_GetSelectionOwner:XGetSelectionOwner(3X11):xs
 610 9126:AUE_ConvertSelection:XConvertSelection(3X11):xs
 611 9127:AUE_SendEvent:XSendEvent(3X11):xs
 612 9128:AUE_GrabPointer:XGrabPointer(3X11):xs
 613 9129:AUE_UngrabPointer:XUngrabPointer(3X11):xs
 614 9130:AUE_GrabButton:XGrabButton(3X11):xp
 615 9131:AUE_UngrabButton:XUngrabButton(3X11):xs
 616 9132:AUE_ChangeActivePointerGrab:XChangeActivePointerGrab(3X11):xs
 617 9133:AUE_GrabKeyboard:XGrabKeyboard(3X11):xp
 618 9134:AUE_UngrabKeyboard:XUngrabKeyboard(3X11):xs
 619 9135:AUE_GrabKey:XGrabKey(3X11):xp
 620 9136:AUE_UngrabKey:XUngrabKey(3X11):xp
 621 9139:AUE_QueryPointer:XQueryPointer(3X11):xp
 622 9140:AUE_GetMotionEvents:XGetMotionEvents(3X11):xp
 623 9141:AUE_TranslateCoords:XTranslateCoords(3X11):xp
 624 9142:AUE_WarpPointer:XWarpPointer(3X11):xs
 625 9143:AUE_SetInputFocus:XSetInputFocus(3X11):xs
 626 9144:AUE_GetInputFocus:XGetInputFocus(3X11):xs
 627 9145:AUE_QueryKeymap:XQueryKeymap(3X11):xp
 628 9147:AUE_FreePixmap:XFreePixmap(3X11):xc
 629 9148:AUE_ChangeGC:XChangeGC(3X11):xp
 630 9149:AUE_CopyGC:XCopyGC(3X11):xp
 631 9150:AUE_SetDashes:XSetDashes(3X11):xp
 632 9151:AUE_SetClipRectangles:XSetClipRectangles(3X11):xp
 633 9152:AUE_FreeGC:XFreeGC(3X11):xc
 634 9153:AUE_ClearArea:XClearArea(3X11):xp
 635 9154:AUE_CopyArea:XCopyArea(3X11):xs
 636 9155:AUE_CopyPlane:XCopyPlane(3X11):xs
 637 9156:AUE_PolyPoint:XPolyPoint(3X11):xp
 638 9157:AUE_PolyLine:XPolyLine(3X11):xp
 639 9158:AUE_PolySegment:XPolySegment(3X11):xp
 640 9159:AUE_PolyRectangle:XPolyRectangle(3X11):xs
 641 9160:AUE_PolyArc:XPolyArc(3X11):xp
 642 9161:AUE_FillPolygon:XFillPolygon(3X11):xp
 643 9162:AUE_PolyFillRectangle:XPolyFillRectangle(3X11):xp
 644 9163:AUE_PolyFillArc:XPolyFillArc(3X11):xp
 645 9164:AUE_PutImage:XPutImage(3X11):xp
 646 9165:AUE_GetImage:XGetImage(3X11):xs
 647 9166:AUE_PolyText8:XPolyText8(3X11):xp
 648 9167:AUE_PolyText16:XPolyText16(3X11):xp
 649 9168:AUE_ImageText8:XImageText8(3X11):xp
 650 9169:AUE_ImageText16:XImageText16(3X11):xp
 651 9170:AUE_CreateColormap:XCreateColormap(3X11):xc
 652 9171:AUE_FreeColormap:XFreeColormap(3X11):xc
 653 9172:AUE_CopyColormapAndFree:XCopyColormapAndFree(3X11):xp
 654 9175:AUE_ListInstalledColormaps:XListInstalledColormaps(3X11):xs
 655 9176:AUE_AllocColor:XAllocColor(3X11):xc
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 656 9177:AUE_AllocNamedColor:XAllocNamedColor(3X11):xc
 657 9178:AUE_AllocColorCells:XAllocColorCells(3X11):xc
 658 9179:AUE_AllocColorPlanes:XAllocColorPlanes(3X11):xc
 659 9180:AUE_FreeColors:XFreeColors(3X11):xc
 660 9181:AUE_StoreColors:XStoreColors(3X11):xp
 661 9182:AUE_StoreNamedColor:XStoreNamedColor(3X11):xp
 662 9183:AUE_QueryColors:XQueryColors(3X11):xp
 663 9184:AUE_LookupColor:XLookupColor(3X11):xp
 664 9185:AUE_CreateCursor:XCreateCursor(3X11):xc
 665 9186:AUE_CreateGlyphCursor:XCreateGlyphCursor(3X11):xc
 666 9187:AUE_FreeCursor:XFreeCursor(3X11):xc
 667 9188:AUE_RecolorCursor:XRecolorCursor(3X11):xp
 668 9189:AUE_ChangeKeyboardMapping:XChangeKeyboardMapping(3X11):xs
 669 9190:AUE_ChangeKeyboardControl:XChangeKeyboardControl(3X11):xs
 670 9191:AUE_Bell:XBell(3X11):xs
 671 9192:AUE_ChangePointerControl:XChangePointerControl(3X11):xs
 672 9198:AUE_RotateProperties:XRotateProperties(3X11):xp
 673 9199:AUE_ForceScreenSaver:XForceScreenSaver(3X11):xp
 674 9200:AUE_SetPointerMapping:XSetPointerMapping(3X11):xs
 675 9201:AUE_SetModifierMapping:XSetModifierMapping(3X11):xs
 676 9202:AUE_uadmin_intrd:uadmin(1m) - intrd:ss
 677 #endif /* ! codereview */
```

```
*********************************************************
   95183 Thu Jul 25 14:31:02 2013
new/usr/src/lib/libbsm/common/adt.xml
XXX Rearchitect and replace interrupt distribution
*********************************************************
   1 <?xml version="1.0" standalone="yes"?>
   2 <!DOCTYPE specification SYSTEM "audit.dtd">
   3 <!--
   4  CDDL HEADER START

   6  The contents of this file are subject to the terms of the
   7  Common Development and Distribution License (the "License").
   8  You may not use this file except in compliance with the License.

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  21  CDDL HEADER END

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  25 -->

  27 <specification>

  29 <!-- comments are displayed to stderr if debug is on -->
  30 <debug set="off"/>

  32     <!-- The order of events is arbitrary EXCEPT generic events must
  33        precede their instances -->
  34       <!-- The order of entries within an event determine the order
  35          data is defined in the external API -->
  36         <!-- The order of internal / external is arbitrary -->

  38 <!--
  39     tags:
  40                     The following top level tags are defined:
  41                     <event> <token> <msg_list> <debug>

  43     event           defines an audit record
  44                     - id is the record id from audit_uevents.h
  45                     - reorder="yes" or "no".  (default is "no").
  46                       if "yes" then the order of the tokens to be
  47                       output does not match the order of the data
  48                       input.  (see order attribute of <entry>)
  49                     - header defines the header file to contain the external
  50                       definitions for this event type.  The header file
  51                       name is adt_event_N.h, where N is the value supplied
  52                       header="0" is for "stable" events, > 0 for new ones.
  53                       with this attribute. (header="1").
  54                     - idNo is the number associated with the external
  55                       name of this event. (For AUE_login, ADT_login is
  56                       the external name and idNo is the value for
  57                       ADT_login.)
  58                     - omit is by default 'no' (i.e., don't omit) and can be
  59                       'always' or 'JNI'.  In the latter case, C interface
  60                       code is generated but neither Java nor JNI code is.
  61                     - included text is just a comment
```

```
  62                     Within an event block, the following tags are defined:
  63                     <entry>, <debug>, <altname>, <title>, <program>, <see>

  65     altname         defines the internal name of an audit record; if
  66                     omitted, the internal name is the same as the
  67                     external name.

  69     title,          these tags are used by auditrecord(1M) build to create
  70     program,        audit_record_attr database from adt events.
  71     see             Following example demonstrates their semantics:

  73                     auditrecord -p passwd
  74                     passwd          <-   <title>
  75                       program    various           See passwd(1)
  76                                  ^-   <program>        ^-   <see>
  77                     event ID   6163              AUE_passwd
  78                     class      lo                (0x00001000)
  79                         header
  80                         subject
  81                         [text]                      username...
  82                                                     ^-   <comment>
  83                         return

  85                     If the length of string in any of the given
  86                     elements is longer than defined, the string is
  87                     silently truncated to the defined length in the
  88                     auditrecord(1M) runtime:

  90                         element <= max (non-truncated) string length
  91                         title   <= 46
  92                         program <= 20
  93                         see     <= 39
  94                         comment <= unlimited
  95                         token   <= 28

  97     entry           defines the correspondence between the data
  98                     supplied by the caller and the token to be
  99                     output.
 100                     - id is the data name that shows up in the structures
 101                       of adt_event.h  If it is a comma separated list,
 102                       it is the list of names of data to be associated
 103                       with one output token.  (See <external>, below)
 104                     Within an entry block, the following tags are defined:
 105                     <internal>, <external>, <debug>, <comment>

 107     internal        defines the token to be generated.
 108                     - token is a name that must also be defined with
 109                       a <token> tag elsewhere in this file.  (order is
 110                       not important).
 111                     - order="some number" determines the order of the
 112                       tokens to be output, starting with 1.  The subject
 113                       token is normally order="1".  The use is to insure
 114                       that the order of fields listed in adt_event.h does
 115                       not change when we arbitrarily change the order of
 116                       tokens.  If the <event reorder="yes"> is not set,
 117                       order is ignored.
 118                     - format is a printf-like string that will be used
 119                       in to format the data supplied by the user.

 121     external        defines the data to be supplied for creating the
 122                     token defined via <internal>
 123                     - opt is one of four values:  "required", "optional",
 124                       "obsolete", or "none".  The first two values
 125                       indicate that this token's data must or may
 126                       be supplied by the user; the third value is
 127                       equivalent to "optional" but shows in the
```

```
128                                     comment that this field is no longer used;
129                                     the forth value indicates that this token
130                                     does not require any user-supplied data.  If
131                                     data is required, then a token is always
132                                     output, while optional data is output only
133                                     if data is supplied.
134                               - type describes the C data type to be associated
135                                 with the <entry id="dataName">.  The following
136                                 data types are representative:

138                                     au_asid_t (uint32_t)
139                                     char
140                                     char * (blank is optional)
141                                     char ** (blank is optional)
142                                     fd_t (int, a file descriptor)
143                                     uint_t, int, int32_t, uid_t, gid_t
144                                     uid_t *, gid_t *
145                                     long, ulong_t
146                                     m_label_t *
147                                     pid_t
148                                     priv_set_t *
149                                     uint16_t, unit32_t, uint64_t
150                                     uint32_t *, uint32_t[], uint64_t *
151                                     msg  (not a C type, see below)

153                               Below is what Tony said.  Above seems to be
154                               what is implemented
155                                     char
156                                     char * (blank is optional)
157                                     char ** (blank is optional)
158                                     int, uid_t, gid_t
159                                     int *, uid_t *, gid_t *
160                                     msg  (not a C type, see below)
161                                     time_t
162                                     uint, uint *

164                                     The msg type refers to an enumerated type
165                                     that must be defined via a <msg> description
166                                     else where in this file. The syntax is
167                                     special.  Example: <external opt="optional"
168                                     type="msg login_text"/> "login_text" is the
169                                     id of a <msg_list> descriptor given
170                                     elsewhere in this file.

172                                     If the <entry> id is a list, the type must also
173                                     be a comma-separated list, where the types are
174                                     in the same order as the id's.
175                                     If the type is an array, its length must be given
176                                     explicitly.

178          comment           Used by auditrecord(1M) build to generate
179                            audit_record_attr. Comment is explanation note
180                            printed with token type. Colon (':') may not be
181                            used in a comment. See example above for other
182                            tags related to auditrecord(1M).

184          token             Define allowed token names.
185                            - id is the name of token; this name is used
186                            as an <internal> id.
187                            - a token id name may not end in digits.
188                            - usage is an optional value.  At present, only
189                              "TSOL" is defined; it means that this data is
190                              to be used only in Trusted Solaris implementations.
191                            See also example above for "token" tag relation to
192                            the auditrecord(1M) output.
```

```
194          msg_list          Define a set of text strings.
195                            - id is the name to be used for this group of text
196                              strings in adt_event.h.
197                            - header is as defined for <event>
198                            - start is a number where produced enum type begins;
199                              ensure msg lists do not overlap
200                            Within a msg_list block, <msg> and <debug> are defined.
201                            The order of <msg> tags in a msg_list is reflected
202                            directly in adt_event.h. Also add ADT_LIST_<<id>> to
203                            enum adt_msg_list in adt_xlate.h.

205          msg               Define one string.
206                            - id is the name to be used in the enum describing
207                              this set of strings.  Convention:  use upper case.
208                            The content (text between <msg> and </msg>) is the
209                            actual string.  Extra white space, including line
210                            feeds, is ignored.  If empty, no output token
211                            is generated unless the <external> opt attribute is
212                            set to "required", in which case a blank text token
213                            is generated.
214                            Within a msg block, <debug> is defined, but has not been
215                            tested and may have no effect.

217          debug             This turns on/off debug messages during the processing
218                            of the xml data.  It affects the block within which it
219                            is defined.
220                            - set may have one of two values:  "on" or "off".  If
221                              set is omitted, the debug state for the current block
222                              is toggled.
223                            The use of the <debug> tag does not affect the output
224                            of data to the various files created, but does generate
225                            potentially large amounts of output to stderr.

227  -->
228  <!--       template for an event record definition

230      <event id="" header="0" idNo="">
231          <entry id="subject">
232              <internal token="subject"/>
233              <external opt="none"/>
234          </entry>
235          <entry id="">
236              <internal token=""/>
237              <external opt="" type="" />
238          </entry>
239          <entry id="return">
240              <internal token="return"/>
241              <external opt="none"/>
242          </entry>
243      </event>

245      Generic events must precede Instance events; within each
246      group, please group the AUE_* by area and event idNo-s in order,
247      gaps in idNo-s are OK.
248      N.B. Renumbering idNo-s requires recompilation of consumers.  See
249      the contracts for whom to notify if/when this happens.
250  -->

252  <!-- generic events  -->

254      <!--
255          'omit="always"' means that this record type is not reflected
256          in the generated header and table files.
257      -->

259      <event id="AUE_generic_basic" type="generic" omit="always">
```

```
260              <!--

262              This is a template for the event types that have no tokens
263              other than the header and return. There is no allowed_type
264              list because the template is not externally visible due to the
265              omit="always".

267              -->
268          <entry id="subject">
269              <internal token="subject"/>
270              <external opt="none"/>
271          </entry>
272          <entry id="return">
273              <internal token="return"/>
274              <external opt="none"/>
275          </entry>
276      </event>

278      <event id="AUE_generic_login" type="generic" omit="always">
279              <!--

281              This is a template for the various login event types
282              AUE_login, AUE_ftp, etc which match this template.  There is
283              no allowed_type list because the template is not externally
284              visible due to the omit="always".

286              -->
287          <entry id="subject">
288              <internal token="subject"/>
289              <external opt="none"/>
290          </entry>

292          <!--    This field is still in use for SMC until it is cleaned up,
293                  it must remain, see login_text msg list at the end of the
294                  file.
295          -->
296          <entry id="message">
297              <internal token="text"/>
298              <external opt="optional" type="msg login_text"/>
299              <comment>error message</comment>
300          </entry>
301          <entry id="return">
302              <internal token="return"/>
303              <external opt="none"/>
304          </entry>
305      </event>

307  <!-- generic SMC events  -->

309      <event id="AUE_generic_SMC_add" type="generic" omit="always">
310          <entry id="subject">
311              <internal token="subject"/>
312              <external opt="none"/>
313          </entry>
314          <entry id="object_name">
315              <internal token="text"/>
316              <external opt="required" type="char *"/>
317              <comment>object name</comment>
318          </entry>
319          <entry id="domain">
320              <internal token="text"/>
321              <external opt="optional" type="char *"/>
322              <comment>domain</comment>
323          </entry>
324          <entry id="name_service">
325              <internal token="text"/>
```

```
326              <external opt="required" type="char *"/>
327              <comment>name_service</comment>
328          </entry>
329          <entry id="auth_used">
330              <internal token="uauth"/>
331              <external opt="optional" type="char *"/>
332              <comment>authorization used</comment>
333          </entry>
334          <!--
335            This should really be its own token type, not "text"
336          -->
337          <entry id="initial_values">
338              <internal token="text"/>
339              <external opt="required" type="char *"/>
340              <comment>initial values</comment>
341          </entry>
342          <entry id="return">
343              <internal token="return"/>
344              <external opt="none"/>
345          </entry>
346      </event>

348      <event id="AUE_generic_SMC_delete" type="generic" omit="always">
349          <entry id="subject">
350              <internal token="subject"/>
351              <external opt="none"/>
352          </entry>
353          <entry id="object_name">
354              <internal token="text"/>
355              <external opt="required" type="char *"/>
356              <comment>object name</comment>
357          </entry>
358          <entry id="domain">
359              <internal token="text"/>
360              <external opt="optional" type="char *"/>
361              <comment>domain</comment>
362          </entry>
363          <entry id="name_service">
364              <internal token="text"/>
365              <external opt="required" type="char *"/>
366              <comment>name_service</comment>
367          </entry>
368          <entry id="auth_used">
369              <internal token="uauth"/>
370              <external opt="optional" type="char *"/>
371              <comment>authorization used</comment>
372          </entry>
373          <entry id="delete_values">
374              <internal token="text"/>
375              <external opt="required" type="char *"/>
376              <comment>deleted values</comment>
377          </entry>
378          <entry id="return">
379              <internal token="return"/>
380              <external opt="none"/>
381          </entry>
382      </event>

384      <event id="AUE_generic_SMC_modify" type="generic" omit="always">
385          <entry id="subject">
386              <internal token="subject"/>
387              <external opt="none"/>
388          </entry>
389          <entry id="object_name">
390              <internal token="text"/>
391              <external opt="required" type="char *"/>
```

```
392                 <comment>object name</comment>
393             </entry>
394             <entry id="domain">
395                 <internal token="text"/>
396                 <external opt="optional" type="char *"/>
397                 <comment>domain</comment>
398             </entry>
399             <entry id="name_service">
400                 <internal token="text"/>
401                 <external opt="required" type="char *"/>
402                 <comment>name_service</comment>
403             </entry>
404             <entry id="auth_used">
405                 <internal token="uauth"/>
406                 <external opt="optional" type="char *"/>
407                 <comment>authorization used</comment>
408             </entry>
409             <entry id="changed_values">
410                 <internal token="text"/>
411                 <external opt="required" type="char *"/>
412                 <comment>changed values</comment>
413             </entry>
414             <entry id="return">
415                 <internal token="return"/>
416                 <external opt="none"/>
417             </entry>
418         </event>

420 <!-- instances -->

422 <!--
423         Java needed for SMC events.  Since the SMC events grow less
424         often than the C related events.  They come first.  It
425         would be nice to reorder the idNo-s, but that's an ABI
426         change and should rev libbsm version no.  If reordered
427         start with 1 and eliminate the comment at the end about
428         the highest idNo.
429 -->
430     <event id="AUE_admin_authenticate" instance_of="AUE_generic_login"
431         header="0" idNo="3">
432         <title>Admin Server Authentication</title>
433         <program>admin (various)</program>
434         <see>SMC, WBEM, or AdminSuite</see>
435     </event>

437     <event id="AUE_filesystem_add" instance_of="AUE_generic_SMC_add"
438         header="0" idNo="4">
439         <title>SMC: filesystem add</title>
440         <program>SMC server</program>
441     </event>
442     <event id="AUE_filesystem_delete" instance_of="AUE_generic_SMC_delete"
443         header="0" idNo="5">
444         <title>SMC: filesystem delete</title>
445         <program>SMC server</program>
446     </event>
447     <event id="AUE_filesystem_modify" instance_of="AUE_generic_SMC_modify"
448         header="0" idNo="6">
449         <title>SMC: filesystem modify</title>
450         <program>SMC server</program>
451     </event>

453     <event id="AUE_network_add" instance_of="AUE_generic_SMC_add"
454         header="0" idNo="7">
455         <title>SMC: network add</title>
456         <program>SMC server</program>
457     </event>
```

```
458     <event id="AUE_network_delete" instance_of="AUE_generic_SMC_delete"
459         header="0" idNo="8">
460         <title>SMC: network delete</title>
461         <program>SMC server</program>
462     </event>
463     <event id="AUE_network_modify" instance_of="AUE_generic_SMC_modify"
464         header="0" idNo="9">
465         <title>SMC: network modify</title>
466         <program>SMC server</program>
467     </event>

469     <event id="AUE_printer_add" instance_of="AUE_generic_SMC_add"
470         header="0" idNo="10">
471         <title>SMC: printer add</title>
472         <program>SMC server</program>
473     </event>
474     <event id="AUE_printer_delete" instance_of="AUE_generic_SMC_delete"
475         header="0" idNo="11">
476         <title>SMC: printer delete</title>
477         <program>SMC server</program>
478     </event>
479     <event id="AUE_printer_modify" instance_of="AUE_generic_SMC_modify"
480         header="0" idNo="12">
481         <title>SMC: printer modify</title>
482         <program>SMC server</program>
483     </event>

485 <!--
486         This is SMC; it's also used in su and should probably be used in
487         desktop role login.  If we fix the SMC to not record NO_MSG here,
488         we can fix to record failed user.  See su.c and AUE_su.
489 -->
490     <event id="AUE_role_login" instance_of="AUE_generic_login"
491         header="0" idNo="13">
492         <title>RBAC: role login</title>
493         <program>SMC server</program>
494         <program>/usr/bin/su</program>
495     </event>

497     <event id="AUE_scheduledjob_add" instance_of="AUE_generic_SMC_add"
498         header="0" idNo="14">
499         <title>SMC: scheduled job add</title>
500         <program>SMC server</program>
501     </event>
502     <event id="AUE_scheduledjob_delete" instance_of="AUE_generic_SMC_delete"
503         header="0" idNo="15">
504         <title>SMC: scheduled job delete</title>
505         <program>SMC server</program>
506     </event>
507     <event id="AUE_scheduledjob_modify" instance_of="AUE_generic_SMC_modify"
508         header="0" idNo="16">
509         <title>SMC: scheduled job modify</title>
510         <program>SMC server</program>
511     </event>

513     <event id="AUE_serialport_add" instance_of="AUE_generic_SMC_add"
514         header="0" idNo="17">
515         <title>SMC: serial port add</title>
516         <program>SMC server</program>
517     </event>
518     <event id="AUE_serialport_delete" instance_of="AUE_generic_SMC_delete"
519         header="0" idNo="18">
520         <title>SMC: serial port delete</title>
521         <program>SMC server</program>
522     </event>
523     <event id="AUE_serialport_modify" instance_of="AUE_generic_SMC_modify"
```

```
524              header="0" idNo="19">
525              <title>SMC: serial port modify</title>
526              <program>SMC server</program>
527         </event>

529 <!-- This is SMC; should this also be used elsewhere? -->
530         <event id="AUE_uauth" header="0" idNo="20">
531              <title>SMC: Use of Authorization</title>
532              <program>SMC server</program>
533              <entry id="subject">
534                  <internal token="subject"/>
535                  <external opt="none"/>
536              </entry>
537              <entry id="auth_used">
538                  <internal token="uauth"/>
539                  <external opt="required" type="char *"/>
540                  <comment>authorization used</comment>
541              </entry>
542              <entry id="objectname">
543                  <internal token="text"/>
544                  <external opt="required" type="char *"/>
545                  <comment>object name</comment>
546              </entry>
547              <entry id="return">
548                  <internal token="return"/>
549                  <external opt="none"/>
550              </entry>
551         </event>

553         <event id="AUE_usermgr_add" instance_of="AUE_generic_SMC_add"
554              header="0" idNo="21">
555              <title>SMC: User Manager add</title>
556              <program>SMC server</program>
557         </event>
558         <event id="AUE_usermgr_delete" instance_of="AUE_generic_SMC_delete"
559              header="0" idNo="22">
560              <title>SMC: User Manager delete</title>
561              <program>SMC server</program>
562         </event>
563         <event id="AUE_usermgr_modify" instance_of="AUE_generic_SMC_modify"
564              header="0" idNo="23">
565              <title>SMC: User Manager modify</title>
566              <program>SMC server</program>
567         </event>
568 <!-- end of Java needed for SMC events -->
569 <!--
570     while not used by SMC logout is used by Lockhart
571 -->
572         <event id="AUE_logout" header="0" idNo="1">
573              <title>login: logout</title>
574              <program>various</program>
575              <see>login(1)</see>
576              <entry id="subject">
577                  <internal token="subject"/>
578                  <external opt="none"/>
579              </entry>
580 <!--
581     not used by C code, used by Lockhart,
582     get them to change and remove
583     event.user_name("logout " + session.getUserName());
584     from /ws/lockhart-nv-gate/src/bundled/app/webmgt/lib/services/
585     com/sun/management/services/audit/SolarisAuditEvent_Logout.java
586 -->
587              <entry id="user_name">
588                  <internal token="text" format="logout %s"/>
589                  <external opt="optional" type="char *"/>
```

```
590                  <comment>"logout" username</comment>
591              </entry>
592              <entry id="return">
593                  <internal token="return"/>
594                  <external opt="none"/>
595              </entry>
596         </event>


599 <!-- C Only events -->
600         <event id="AUE_init_solaris" header="0" idNo="32" omit="JNI">
601              <title>init</title>
602              <program>/sbin/init</program>
603              <program>/usr/sbin/init</program>
604              <program>/usr/sbin/shutdown</program>
605              <entry id="subject">
606                  <internal token="subject"/>
607                  <external opt="none"/>
608              </entry>
609              <entry id="info">
610                  <internal token="text"/>
611                  <external opt="optional" type="char *"/>
612                  <comment>init level or zone name</comment>
613              </entry>
614              <entry id="return">
615                  <internal token="return"/>
616                  <external opt="none"/>
617              </entry>
618         </event>

620         <event id="AUE_login" instance_of="AUE_generic_login" header="0"
621              idNo="25" omit="JNI">
622              <title>terminal login</title>
623              <program>/usr/sbin/login</program>
624              <program>/usr/dt/bin/dtlogin</program>
625              <see>login(1)</see>
626              <see>dtlogin</see>
627         </event>
628         <event id="AUE_rlogin" instance_of="AUE_generic_login" header="0"
629              idNo="28" omit="JNI">
630              <title>rlogin</title>
631              <program>/usr/sbin/login</program>
632              <see>login(1) - rlogin</see>
633         </event>
634         <event id="AUE_telnet" instance_of="AUE_generic_login" header="0"
635              idNo="29" omit="JNI">
636              <title>telnet login</title>
637              <program>/usr/sbin/login</program>
638              <see>login(1) - telnet</see>
639         </event>
640         <event id="AUE_ssh" instance_of="AUE_generic_login" header="0"
641              idNo="2" omit="JNI">
642              <program>/usr/lib/ssh/sshd</program>
643         </event>

645         <event id="AUE_zlogin" header="0" idNo="38" omit="JNI">
646              <title>zone login</title>
647              <program>/usr/sbin/login</program>
648              <see>zlogin(1)</see>
649              <entry id="subject">
650                  <internal token="subject"/>
651                  <external opt="none"/>
652              </entry>
653              <entry id="message">
654                  <internal token="text"/>
655                  <external opt="optional" type="char *"/>
```

```
656                <comment>error message</comment>
657            </entry>
658            <entry id="return">
659                <internal token="return"/>
660                <external opt="none"/>
661            </entry>
662        </event>

664    <event id="AUE_su" header="0" idNo="30" omit="JNI">
665        <title>su</title>
666        <program>/usr/bin/su</program>
667        <see>su(1M)</see>
668        <entry id="subject">
669            <internal token="subject"/>
670            <external opt="none"/>
671        </entry>
672 <!--
673        should be changed to "fail_user" and su.c updated
674        However, the jni stuff is broken, so for now it's "message"
675 -->
676        <entry id="message">
677            <internal token="text"/>
678            <external opt="optional" type="char *"/>
679            <comment>"user name" of failed new user/role</comment>
680        </entry>
681        <entry id="return">
682            <internal token="return"/>
683            <external opt="none"/>
684        </entry>
685    </event>

687    <event id="AUE_passwd" header="0" idNo="27" omit="JNI">
688        <title>passwd</title>
689        <program>various</program>
690        <see>passwd(1)</see>
691        <entry id="subject">
692            <internal token="subject"/>
693            <external opt="none"/>
694        </entry>
695        <entry id="uid,username">
696            <internal token="user"/>
697            <external opt="optional" type="uid_t,char *"/>
698            <comment>user if different than caller</comment>
699        </entry>
700        <entry id="return">
701            <internal token="return"/>
702            <external opt="none"/>
703        </entry>
704    </event>

706    <event id="AUE_screenlock" instance_of="AUE_generic_basic" header="0"
707        idNo="26" omit="JNI">
708        <program>desktop screen lock</program>
709    </event>
710    <event id="AUE_screenunlock" instance_of="AUE_generic_basic" header="0"
711        idNo="31" omit="JNI">
712        <program>desktop screen unlock</program>
713    </event>

715    <!--
716        AUE_prof_cmd is not supportable for Java due to the structure of
717        the priv token.  When and if a Java program needs to generate
718        a priv token, we'll need to look at the data format in the
719        Java code and provide an appropriate java and jni implementation.
720    -->
```

```
722    <event id="AUE_prof_cmd" header="0" idNo="24" omit="JNI">
723        <title>pfexec</title>
724        <program>/usr/bin/pfexec</program>
725        <see>pfexec(1)</see>
726        <entry id="subject">
727            <internal token="subject"/>
728            <external opt="none"/>
729        </entry>
730        <entry id="cwdpath">
731            <internal token="path"/>
732            <external opt="required" type="char*"/>
733            <comment>working directory</comment>
734        </entry>
735        <entry id="cmdpath">
736            <internal token="path"/>
737            <external opt="required" type="char*"/>
738            <comment>command pathname</comment>
739        </entry>
740        <entry id="argc,argv,envp">
741            <internal token="command"/>
742            <external opt="required" type="int,char**,char**"/>
743        </entry>
744        <entry id="proc_auid,proc_euid,proc_egid,proc_ruid,proc_rgid,proc_pid,pr
745            <internal token="process"/>
746            <external opt="required"
747                type="uid_t,uid_t,gid_t,uid_t,gid_t,pid_t,au_asid_t,termid*"/>
748        </entry>
749        <entry id="limit_set">
750            <internal token="priv_limit"/>
751            <external opt="optional" type="priv_set_t*"/>
752        </entry>
753        <entry id="inherit_set">
754            <internal token="priv_inherit"/>
755            <external opt="optional" type="priv_set_t*"/>
756        </entry>
757        <entry id="return">
758            <internal token="return"/>
759            <external opt="none"/>
760        </entry>
761    </event>

763    <event id="AUE_inetd_connect" header="0" idNo="34" omit="JNI">
764        <title>inetd</title>
765        <program>/usr/sbin/inetd</program>
766        <entry id="subject">
767            <internal token="subject"/>
768            <external opt="none"/>
769        </entry>
770        <entry id="service_name">
771            <internal token="text"/>
772            <external opt="optional" type="char *"/>
773            <comment>service name</comment>
774        </entry>
775        <entry id="ip_type,ip_remote_port,ip_local_port,ip_adr">
776            <internal token="tid"/>
777            <external opt="required"
778                type="uint32_t,uint16_t,uint16_t,uint32_t[4]"/>
779            <comment>client address</comment>
780        </entry>
781        <entry id="cmd">
782            <internal token="command_alt"/>
783            <external opt="required" type="char *"/>
784            <comment>inetd command</comment>
785        </entry>
786        <entry id="privileges">
787            <internal token="priv_effective"/>
```

```
788                <external opt="required" type="priv_set_t *"/>
789            </entry>
790            <entry id="return">
791                <internal token="return"/>
792                <external opt="none"/>
793            </entry>
794        </event>

796        <event id="AUE_inetd_ratelimit" header="0" idNo="35" omit="JNI">
797            <title>inetd</title>
798            <program>/usr/sbin/inetd</program>
799            <entry id="subject">
800                <internal token="subject"/>
801                <external opt="none"/>
802            </entry>
803            <entry id="service_name">
804                <internal token="text"/>
805                <external opt="optional" type="char *"/>
806                <comment>service name</comment>
807            </entry>
808            <entry id="limit">
809                <internal token="text"/>
810                <external opt="required" type="char *"/>
811                <comment>limit value</comment>
812            </entry>
813            <entry id="return">
814                <internal token="return"/>
815                <external opt="none"/>
816            </entry>
817        </event>

819        <event id="AUE_inetd_copylimit" header="0" idNo="36" omit="JNI">
820            <title>inetd</title>
821            <program>/usr/sbin/inetd</program>
822            <entry id="subject">
823                <internal token="subject"/>
824                <external opt="none"/>
825            </entry>
826            <entry id="service_name">
827                <internal token="text"/>
828                <external opt="optional" type="char *"/>
829                <comment>service name</comment>
830            </entry>
831            <entry id="limit">
832                <internal token="text"/>
833                <external opt="required" type="char *"/>
834                <comment>limit value</comment>
835            </entry>
836            <entry id="return">
837                <internal token="return"/>
838                <external opt="none"/>
839            </entry>
840        </event>

842        <event id="AUE_inetd_failrate" header="0" idNo="37" omit="JNI">
843            <title>inetd</title>
844            <program>/usr/sbin/inetd</program>
845            <entry id="subject">
846                <internal token="subject"/>
847                <external opt="none"/>
848            </entry>
849            <entry id="service_name">
850                <internal token="text"/>
851                <external opt="optional" type="char *"/>
852                <comment>service name</comment>
853            </entry>
```

```
854            <entry id="values">
855                <internal token="text"/>
856                <external opt="required" type="char *"/>
857                <comment>limit value, interval</comment>
858            </entry>
859            <entry id="return">
860                <internal token="return"/>
861                <external opt="none"/>
862            </entry>
863        </event>

865        <event id="AUE_zone_state" header="0" idNo="33" omit="JNI">
866            <entry id="subject">
867                <internal token="subject"/>
868                <external opt="none"/>
869            </entry>
870            <entry id="new_state">
871                <internal token="text"/>
872                <external opt="required" type="char *"/>
873                <comment>New zone state</comment>
874            </entry>
875            <entry id="zonename">
876                <internal token="zonename"/>
877                <external opt="required" type="char *"/>
878                <comment>zone name</comment>
879            </entry>
880            <entry id="return">
881                <internal token="return"/>
882                <external opt="none"/>
883            </entry>
884        </event>

886        <event id="AUE_su_logout" instance_of="AUE_generic_basic"
887            header="0" idNo="39" omit="JNI">
888            <title>su</title>
889            <program>/usr/bin/su</program>
890            <see>su(1M)</see>
891        </event>

893        <event id="AUE_role_logout" instance_of="AUE_generic_basic"
894            header="0" idNo="40" omit="JNI">
895            <title>su</title>
896            <program>/usr/bin/su</program>
897            <see>su(1M)</see>
898        </event>

900        <event id="AUE_newgrp_login" header="0" idNo="41" omit="JNI">
901            <program>newgrp</program>
902            <entry id="subject">
903                <internal token="subject"/>
904                <external opt="none"/>
905            </entry>
906            <entry id="groupname">
907                <internal  token="text"/>
908                <external opt="required"  type="char *"/>
909                <comment>group name</comment>
910            </entry>
911            <entry id="return">
912                <internal token="return"/>
913                <external opt="none"/>
914            </entry>
915        </event>

917        <event id="AUE_generic_mountable" type="generic" omit="always">
918            <!--
```

```
 920        User device mounting related functions

 922        -->
 923        <entry id="subject">
 924            <internal token="subject"/>
 925            <external opt="none"/>
 926        </entry>
 927        <entry id="auth_used">
 928            <internal token="uauth"/>
 929            <external opt="required" type="char *"/>
 930            <comment>authorization used</comment>
 931        </entry>
 932        <entry id="mount_point">
 933            <internal token="path"/>
 934            <external opt="required" type="char *"/>
 935            <comment>mount point</comment>
 936        </entry>
 937        <entry id="device">
 938            <internal token="path"/>
 939            <external opt="required" type="char *"/>
 940            <comment>device</comment>
 941        </entry>
 942        <entry id="options">
 943            <internal token="text"/>
 944            <external opt="optional" type="char *"/>
 945            <comment>options</comment>
 946        </entry>
 947        <entry id="return">
 948            <internal token="return"/>
 949            <external opt="none"/>
 950        </entry>
 951    </event>

 953    <event id="AUE_attach" instance_of="AUE_generic_mountable"
 954        header="0" idNo="42" omit="JNI">
 955        <program>hald</program>
 956    </event>
 957    <event id="AUE_detach" instance_of="AUE_generic_mountable"
 958        header="0" idNo="43" omit="JNI">
 959        <program>hald</program>
 960    </event>
 961    <event id="AUE_remove" header="0" idNo="44" omit="JNI">
 962        <program>hald</program>
 963        <entry id="subject">
 964            <internal token="subject"/>
 965            <external opt="none"/>
 966        </entry>
 967        <entry id="auth_used">
 968            <internal token="uauth"/>
 969            <external opt="required" type="char *"/>
 970            <comment>authorization used</comment>
 971        </entry>
 972        <entry id="mount_point">
 973            <internal token="path"/>
 974            <external opt="optional" type="char *"/>
 975            <comment>mount point</comment>
 976        </entry>
 977        <entry id="device">
 978            <internal token="path"/>
 979            <external opt="required" type="char *"/>
 980            <comment>device</comment>
 981        </entry>
 982        <entry id="return">
 983            <internal token="return"/>
 984            <external opt="none"/>
 985        </entry>
```

```
 986    </event>

 988    <event id="AUE_pool_import" header="0" idNo="45" omit="JNI">
 989        <program>hald</program>
 990        <entry id="subject">
 991            <internal token="subject"/>
 992            <external opt="none"/>
 993        </entry>
 994        <entry id="auth_used">
 995            <internal token="uauth"/>
 996            <external opt="required" type="char *"/>
 997            <comment>authorization used</comment>
 998        </entry>
 999        <entry id="pool">
1000            <internal token="text"/>
1001            <external opt="required" type="char *"/>
1002            <comment>pool</comment>
1003        </entry>
1004        <entry id="device">
1005            <internal token="path"/>
1006            <external opt="required" type="char *"/>
1007            <comment>device</comment>
1008        </entry>
1009        <entry id="return">
1010            <internal token="return"/>
1011            <external opt="none"/>
1012        </entry>
1013    </event>
1014    <event id="AUE_pool_export" header="0" idNo="46" omit="JNI">
1015        <program>hald</program>
1016        <entry id="subject">
1017            <internal token="subject"/>
1018            <external opt="none"/>
1019        </entry>
1020        <entry id="auth_used">
1021            <internal token="uauth"/>
1022            <external opt="required" type="char *"/>
1023            <comment>authorization used</comment>
1024        </entry>
1025        <entry id="pool">
1026            <internal token="text"/>
1027            <external opt="required" type="char *"/>
1028            <comment>pool</comment>
1029        </entry>
1030        <entry id="device">
1031            <internal token="path"/>
1032            <external opt="required" type="char *"/>
1033            <comment>device</comment>
1034        </entry>
1035        <entry id="return">
1036            <internal token="return"/>
1037            <external opt="none"/>
1038        </entry>
1039    </event>

1041 <!-- dladm security objected events -->
1042    <event id="AUE_dladm_generic" type="generic" omit="always">
1043        <entry id="subject">
1044            <internal token="subject"/>
1045            <external opt="none"/>
1046        </entry>
1047        <entry id="auth_used">
1048            <internal token="uauth"/>
1049            <external opt="required" type="char *"/>
1050            <comment>authorization used</comment>
1051        </entry>
```

```
1052            <entry id="obj_class">
1053                    <internal token="text"/>
1054                    <external opt="required" type="char *"/>
1055                    <comment>object class name</comment>
1056            </entry>
1057            <entry id="obj_name">
1058                    <internal token="text"/>
1059                    <external opt="required" type="char *"/>
1060                    <comment>object name</comment>
1061            </entry>
1062            <entry id="return">
1063                    <internal token="return"/>
1064                    <external opt="none"/>
1065            </entry>
1066        </event>

1068        <event id="AUE_dladm_create_secobj" instance_of="AUE_dladm_generic"
1069            header="0" idNo="47" omit="JNI">
1070            <title>create wifi security object</title>
1071            <program>/usr/sbin/dladm</program>
1072            <see>dladm(1M)</see>
1073        </event>
1074        <event id="AUE_dladm_delete_secobj" instance_of="AUE_dladm_generic"
1075            header="0" idNo="48" omit="JNI">
1076            <title>delete wifi security object</title>
1077            <program>/usr/sbin/dladm</program>
1078            <see>dladm(1M)</see>
1079        </event>

1081 <!-- Trusted eXtensions (TX) events -->

1083        <!-- labeld events -->
1084        <event id="AUE_file_relabel" header="0" idNo="49" omit="JNI">
1085            <title>relabel file from one zone to another</title>
1086            <program>setlabel(1)</program>
1087            <see>setflabel(3TSOL)</see>
1088            <entry id="subject">
1089                    <internal token="subject"/>
1090                    <external opt="none"/>
1091            </entry>
1092            <entry id="auth_used">
1093                    <internal token="uauth"/>
1094                    <external opt="required" type="char *"/>
1095                    <comment>authorization used</comment>
1096            </entry>
1097            <entry id="file">
1098                    <internal token="path"/>
1099                    <external opt="required" type="char *"/>
1100                    <comment>file relabeled</comment>
1101            </entry>
1102            <entry id="src_label">
1103                    <internal token="label"/>
1104                    <external opt="required" type="m_label_t *"/>
1105                    <comment>original label</comment>
1106            </entry>
1107            <entry id="dst_label">
1108                    <internal token="label"/>
1109                    <external opt="required" type="m_label_t *"/>
1110                    <comment>new label</comment>
1111            </entry>
1112            <entry id="return">
1113                    <internal token="return"/>
1114                    <external opt="none"/>
1115            </entry>
1116        </event>
```

```
1118        <event id="AUE_file_copy" header="0" idNo="50" omit="JNI">
1119            <title>copy file to another zone</title>
1120            <program>dtfile(1X)</program>
1121            <entry id="subject">
1122                    <internal token="subject"/>
1123                    <external opt="none"/>
1124            </entry>
1125            <entry id="auth_used">
1126                    <internal token="uauth"/>
1127                    <external opt="required" type="char *"/>
1128                    <comment>authorization used</comment>
1129            </entry>
1130            <entry id="src_file">
1131                    <internal token="path"/>
1132                    <external opt="required" type="char *"/>
1133                    <comment>source file</comment>
1134            </entry>
1135            <entry id="src_label">
1136                    <internal token="label"/>
1137                    <external opt="required" type="m_label_t *"/>
1138                    <comment>source label</comment>
1139            </entry>
1140            <entry id="dst_file">
1141                    <internal token="path"/>
1142                    <external opt="required" type="char *"/>
1143                    <comment>destination directory</comment>
1144            </entry>
1145            <entry id="dst_label">
1146                    <internal token="label"/>
1147                    <external opt="required" type="m_label_t *"/>
1148                    <comment>destination label</comment>
1149            </entry>
1150            <entry id="return">
1151                    <internal token="return"/>
1152                    <external opt="none"/>
1153            </entry>
1154        </event>

1156        <!-- uadmin(1m) events -->
1157        <event id="AUE_uadmin_generic" type="generic" omit="always">
1158            <entry id="subject">
1159                    <internal token="subject"/>
1160                    <external opt="none"/>
1161            </entry>
1162            <entry id="fcn">
1163                    <internal token="text"/>
1164                    <external opt="required" type="msg uadmin_fcn"/>
1165                    <comment>next action</comment>
1166            </entry>
1167            <entry id="mdep">
1168                    <internal token="text"/>
1169                    <external opt="optional" type="char *"/>
1170                    <comment>machine dependent argument</comment>
1171            </entry>
1172            <entry id="return">
1173                    <internal token="return"/>
1174                    <external opt="none"/>
1175            </entry>
1176        </event>
1177        <event id="AUE_uadmin_generic_fcn" type="generic" omit="always">
1178            <entry id="subject">
1179                    <internal token="subject"/>
1180                    <external opt="none"/>
1181            </entry>
1182            <entry id="fcn">
1183                    <internal token="text"/>
```

```
1184               <external opt="required" type="msg uadmin_fcn"/>
1185               <comment>next action</comment>
1186          </entry>
1187          <entry id="return">
1188               <internal token="return"/>
1189               <external opt="none"/>
1190          </entry>
1191     </event>
1192     <event id="AUE_uadmin_shutdown" instance_of="AUE_uadmin_generic"
1193          header="0" idNo="51" omit="JNI">
1194          <title>uadmin shutdown</title>
1195          <program>/sbin/uadmin</program>
1196          <program>/usr/sbin/uadmin</program>
1197          <see>uadmin(1M)</see>
1198     </event>
1199     <event id="AUE_uadmin_reboot" instance_of="AUE_uadmin_generic"
1200          header="0" idNo="52" omit="JNI">
1201          <title>uadmin reboot</title>
1202          <program>/sbin/uadmin</program>
1203          <program>/usr/sbin/uadmin</program>
1204          <see>uadmin(1M)</see>
1205     </event>
1206     <event id="AUE_uadmin_dump" instance_of="AUE_uadmin_generic"
1207          header="0" idNo="53" omit="JNI">
1208          <title>uadmin dump</title>
1209          <program>/sbin/uadmin</program>
1210          <program>/usr/sbin/uadmin</program>
1211          <see>uadmin(1M)</see>
1212     </event>
1213     <event id="AUE_uadmin_freeze" instance_of="AUE_uadmin_generic"
1214          header="0" idNo="54" omit="JNI">
1215          <title>uadmin freeze</title>
1216          <program>/sbin/uadmin</program>
1217          <program>/usr/sbin/uadmin</program>
1218          <see>uadmin(1M)</see>
1219     </event>
1220     <event id="AUE_uadmin_remount" header="0" idNo="55" omit="JNI">
1221          <title>uadmin remount</title>
1222          <program>/sbin/uadmin</program>
1223          <program>/usr/sbin/uadmin</program>
1224          <see>uadmin(1M)</see>
1225          <entry id="subject">
1226               <internal token="subject"/>
1227               <external opt="none"/>
1228          </entry>
1229          <entry id="return">
1230               <internal token="return"/>
1231               <external opt="none"/>
1232          </entry>
1233     </event>
1234     <!-- uadmin ftrace and swapctl are not documented in uadmin(2) -->
1235     <event id="AUE_uadmin_ftrace" instance_of="AUE_uadmin_generic"
1236          header="0" idNo="56" omit="JNI">
1237          <title>uadmin ftrace</title>
1238          <program>/sbin/uadmin</program>
1239          <program>/usr/sbin/uadmin</program>
1240          <see>uadmin(1M)</see>
1241     </event>
1242     <event id="AUE_uadmin_swapctl" instance_of="AUE_uadmin_generic_fcn"
1243          header="0" idNo="57" omit="JNI">
1244          <title>uadmin swapctl</title>
1245          <program>/sbin/uadmin</program>
1246          <program>/usr/sbin/uadmin</program>
1247          <see>uadmin(1M)</see>
1248     </event>
1249     <event id="AUE_uadmin_thaw" header="0" idNo="96" omit="JNI">
```

```
1250          <title>thaw after freeze</title>
1251          <program>/sbin/uadmin</program>
1252          <program>/usr/sbin/uadmin</program>
1253          <see>uadmin(1M)</see>
1254          <entry id="subject">
1255               <internal token="subject"/>
1256               <external opt="none"/>
1257          </entry>
1258          <entry id="fcn">
1259               <internal token="text"/>
1260               <external opt="required" type="msg uadmin_fcn"/>
1261               <comment>freeze action type</comment>
1262          </entry>
1263          <entry id="return">
1264               <internal token="return"/>
1265               <external opt="none"/>
1266          </entry>
1267     </event>
1268     <!-- uadmin config is not documented in uadmin(2) -->
1269     <event id="AUE_uadmin_config" instance_of="AUE_uadmin_generic"
1270          header="0" idNo="119" omit="JNI">
1271          <title>uadmin config</title>
1272          <program>/sbin/uadmin</program>
1273          <program>/usr/sbin/uadmin</program>
1274          <see>uadmin(1M)</see>
1275     </event>

1277 <!-- smbd service event; smbd session setup -->
1278     <event id="AUE_smbd_session" header="0" idNo="58" omit="JNI">
1279          <title>smbd</title>
1280          <program>/usr/lib/smbsrv/smbd</program>
1281          <entry id="subject">
1282               <internal token="subject"/>
1283               <external opt="none"/>
1284          </entry>
1285          <entry id="domain">
1286               <internal token="text"/>
1287               <external opt="required" type="char*"/>
1288          <comment>domain</comment>
1289          </entry>
1290          <entry id="username">
1291               <internal token="text"/>
1292               <external opt="required" type="char*"/>
1293          <comment>username</comment>
1294          </entry>
1295          <entry id="sid">
1296               <internal token="text"/>
1297               <external opt="optional" type="char*"/>
1298          <comment>sid</comment>
1299          </entry>
1300          <entry id="return">
1301               <internal token="return"/>
1302               <external opt="none"/>
1303          </entry>
1304     </event>

1306 <!-- smbd service event; smbd session logoff -->
1307     <event id="AUE_smbd_logoff" header="0" idNo="59" omit="JNI">
1308          <title>smbd</title>
1309          <program>/usr/lib/smbsrv/smbd</program>
1310          <entry id="subject">
1311               <internal token="subject"/>
1312               <external opt="none"/>
1313          </entry>
1314          <entry id="domain">
1315               <internal token="text"/>
```

```
1316                 <external opt="required" type="char*"/>
1317             <comment>domain</comment>
1318         </entry>
1319         <entry id="username">
1320             <internal token="text"/>
1321             <external opt="required" type="char*"/>
1322             <comment>username</comment>
1323         </entry>
1324         <entry id="return">
1325             <internal token="return"/>
1326             <external opt="none"/>
1327         </entry>
1328     </event>

1330 <!-- vscan service event; infected file detected -->
1331     <event id="AUE_vscan_quarantine" header="0" idNo="60" omit="JNI">
1332         <title>VSCAN: quarantine infected file</title>
1333         <program>/usr/lib/vscan/vscand</program>
1334         <see>vscand(1M), ICAP RFC 3507 (Extensions)</see>
1335         <entry id="subject">
1336             <internal token="subject"/>
1337             <external opt="none"/>
1338         </entry>
1339         <entry id="file">
1340             <internal token="path"/>
1341             <external opt="required" type="char*"/>
1342             <comment>infected file</comment>
1343         </entry>
1344         <entry id="violations,nviolations">
1345             <internal token="text"/>
1346             <external opt="optional" type="char**,int"/>
1347             <comment>ID - threat description</comment>
1348         </entry>
1349         <entry id="return">
1350             <internal token="return"/>
1351             <external opt="none"/>
1352         </entry>
1353     </event>

1355 <!-- ndmp service event; ndmp client connect -->
1356     <event id="AUE_ndmp_connect" instance_of="AUE_generic_basic" header="0"
1357         idNo="61" omit="JNI">
1358         <title>NDMP Connect</title>
1359         <program>/usr/lib/ndmp/ndmpd</program>
1360         <see>ndmpd(1M)</see>
1361     </event>

1363 <!-- ndmp service event; ndmp client disconnect -->
1364     <event id="AUE_ndmp_disconnect" instance_of="AUE_generic_basic" header="0"
1365         idNo="62" omit="JNI">
1366         <title>NDMP Disconnect</title>
1367         <program>/usr/lib/ndmp/ndmpd</program>
1368         <see>ndmpd(1M)</see>
1369     </event>

1371 <!-- ndmp service event; ndmp backup -->
1372     <event id="AUE_ndmp_backup" header="0" idNo="63" omit="JNI">
1373         <title>NDMP Backup</title>
1374         <program>/usr/lib/ndmp/ndmpd</program>
1375         <see>ndmpd(1M)</see>
1376         <entry id="subject">
1377             <internal token="subject"/>
1378             <external opt="none"/>
1379         </entry>
1380         <entry id="source">
1381             <internal token="path"/>
```

```
1382                 <external opt="required" type="char *"/>
1383             <comment>path to be backed up</comment>
1384         </entry>
1385         <entry id="local_dest">
1386             <internal token="path"/>
1387             <external opt="optional" type="char *"/>
1388             <comment>local path of backup destination</comment>
1389         </entry>
1390         <entry id="remote_dest">
1391             <internal token="in_peer"/>
1392             <external opt="optional" type="fd_t"/>
1393             <comment>remote ip address and port of backup destination</comment>
1394         </entry>
1395         <entry id="return">
1396             <internal token="return"/>
1397             <external opt="none"/>
1398         </entry>
1399     </event>

1401 <!-- ndmp service event; ndmp restore -->
1402     <event id="AUE_ndmp_restore" header="0" idNo="64" omit="JNI">
1403         <title>NDMP Restore</title>
1404         <program>/usr/lib/ndmp/ndmpd</program>
1405         <see>ndmpd(1M)</see>
1406         <entry id="subject">
1407             <internal token="subject"/>
1408             <external opt="none"/>
1409         </entry>
1410         <entry id="destination">
1411             <internal token="path"/>
1412             <external opt="required" type="char *"/>
1413             <comment>path to restore to</comment>
1414         </entry>
1415         <entry id="local_source">
1416             <internal token="path"/>
1417             <external opt="optional" type="char *"/>
1418             <comment>local path to restore from</comment>
1419         </entry>
1420         <entry id="remote_source">
1421             <internal token="in_peer"/>
1422             <external opt="optional" type="fd_t"/>
1423             <comment>remote ip address and port to restore from</comment>
1424         </entry>
1425         <entry id="return">
1426             <internal token="return"/>
1427             <external opt="none"/>
1428         </entry>
1429     </event>

1431 <!-- SMF related events -->
1432     <event id="AUE_smf_generic" type="generic" omit="always">
1433         <!--
1434         This is a template for the event types that have no tokens
1435         other than the header and return. There is no allowed_type
1436         list because the template is not externally visible due to the
1437         omit="always".
1438         -->
1439         <entry id="subject">
1440             <internal token="subject"/>
1441             <external opt="none"/>
1442         </entry>
1443         <entry id="auth_used">
1444             <internal token="uauth"/>
1445             <external opt="required" type="char *"/>
1446             <comment>authorization used</comment>
1447         </entry>
```

```
1448            <entry id="fmri">
1449                <internal token="fmri"/>
1450                <external opt="required" type="char *"/>
1451                <comment>name</comment>
1452            </entry>
1453            <entry id="return">
1454                <internal token="return"/>
1455                <external opt="none"/>
1456            </entry>
1457        </event>

1459        <event id="AUE_smf_generic_pg" type="generic" omit="always">
1460            <!--
1461            This is a template for the event types related to property groups.
1462            There is no allowed_type list because the template is not externally
1463            visible due to the omit="always".
1464            -->
1465            <entry id="subject">
1466                <internal token="subject"/>
1467                <external opt="none"/>
1468            </entry>
1469            <entry id="auth_used">
1470                <internal token="uauth"/>
1471                <external opt="required" type="char *"/>
1472                <comment>authorization used</comment>
1473            </entry>
1474            <entry id="fmri">
1475                <internal token="fmri"/>
1476                <external opt="required" type="char *"/>
1477            </entry>
1478            <entry id="type">
1479                <internal token="text"/>
1480                <external opt="required" type="char *"/>
1481                <comment>property group type</comment>
1482            </entry>
1483            <entry id="return">
1484                <internal token="return"/>
1485                <external opt="none"/>
1486            </entry>
1487        </event>

1489        <event id="AUE_smf_enable" instance_of="AUE_smf_generic" header="0"
1490            idNo="65" omit="JNI">
1491            <program>svc.configd(1M)</program>
1492            <see>svcadm(1M)</see>
1493        </event>
1494        <event id="AUE_smf_tmp_enable" instance_of="AUE_smf_generic" header="0"
1495            idNo="66" omit="JNI">
1496            <program>svc.configd(1M)</program>
1497            <see>svcadm(1M)</see>
1498        </event>
1499        <event id="AUE_smf_disable" instance_of="AUE_smf_generic" header="0"
1500            idNo="67" omit="JNI">
1501            <program>svc.configd(1M)</program>
1502            <see>svcadm(1M)</see>
1503        </event>
1504        <event id="AUE_smf_tmp_disable" instance_of="AUE_smf_generic" header="0"
1505            idNo="68" omit="JNI">
1506            <program>svc.configd(1M)</program>
1507            <see>svcadm(1M)</see>
1508        </event>
1509        <event id="AUE_smf_restart" instance_of="AUE_smf_generic" header="0"
1510            idNo="69" omit="JNI">
1511            <program>svc.configd(1M)</program>
1512            <see>svcadm(1M)</see>
1513        </event>
```

```
1514        <event id="AUE_smf_refresh" instance_of="AUE_smf_generic" header="0"
1515            idNo="70" omit="JNI">
1516            <program>svc.configd(1M)</program>
1517            <see>svcadm(1M)</see>
1518        </event>
1519        <event id="AUE_smf_clear" instance_of="AUE_smf_generic" header="0"
1520            idNo="71" omit="JNI">
1521            <program>svc.configd(1M)</program>
1522            <see>svcadm(1M)</see>
1523        </event>
1524        <event id="AUE_smf_degrade" instance_of="AUE_smf_generic" header="0"
1525            idNo="72" omit="JNI">
1526            <program>svc.configd(1M)</program>
1527            <see>svcadm(1M)</see>
1528        </event>
1529        <event id="AUE_smf_immediate_degrade" instance_of="AUE_smf_generic"
1530            header="0" idNo="73" omit="JNI">
1531            <program>svc.configd(1M)</program>
1532            <see>svcadm(1M)</see>
1533        </event>
1534        <event id="AUE_smf_maintenance" instance_of="AUE_smf_generic" header="0"
1535            idNo="74" omit="JNI">
1536            <program>svc.configd(1M)</program>
1537            <see>svcadm(1M)</see>
1538        </event>
1539        <event id="AUE_smf_immediate_maintenance" instance_of="AUE_smf_generic"
1540            header="0" idNo="75" omit="JNI">
1541            <program>svc.configd(1M)</program>
1542            <see>svcadm(1M)</see>
1543        </event>
1544        <event id="AUE_smf_immtmp_maintenance" instance_of="AUE_smf_generic"
1545            header="0" idNo="76" omit="JNI">
1546            <program>svc.configd(1M)</program>
1547            <see>svcadm(1M)</see>
1548        </event>
1549        <event id="AUE_smf_tmp_maintenance" instance_of="AUE_smf_generic" header="0"
1550            idNo="77" omit="JNI">
1551            <program>svc.configd(1M)</program>
1552            <see>svcadm(1M)</see>
1553        </event>
1554        <event id="AUE_smf_milestone" instance_of="AUE_smf_generic" header="0"
1555            idNo="78" omit="JNI">
1556            <program>svc.configd(1M)</program>
1557            <see>svcadm(1M)</see>
1558        </event>

1560        <event id="AUE_smf_create" instance_of="AUE_smf_generic" header="0"
1561            idNo="79" omit="JNI">
1562            <program>svc.configd(1M)</program>
1563            <see>svccfg(1M)</see>
1564        </event>
1565        <event id="AUE_smf_delete" instance_of="AUE_smf_generic" header="0"
1566            idNo="80" omit="JNI">
1567            <program>svc.configd(1M)</program>
1568            <see>svccfg(1M)</see>
1569        </event>

1571        <event id="AUE_smf_create_pg" instance_of="AUE_smf_generic_pg" header="0"
1572            idNo="81" omit="JNI">
1573            <program>svc.configd(1M)</program>
1574            <see>svccfg(1M)</see>
1575        </event>
1576        <event id="AUE_smf_create_npg" instance_of="AUE_smf_generic_pg" header="0"
1577            idNo="82" omit="JNI">
1578            <program>svc.configd(1M)</program>
1579            <see>svccfg(1M)</see>
```

```
1580         </event>
1581         <event id="AUE_smf_delete_pg" instance_of="AUE_smf_generic_pg" header="0"
1582              idNo="83" omit="JNI">
1583              <program>svc.configd(1M)</program>
1584              <see>svccfg(1M)</see>
1585         </event>
1586         <event id="AUE_smf_delete_npg" instance_of="AUE_smf_generic_pg" header="0"
1587              idNo="84" omit="JNI">
1588              <program>svc.configd(1M)</program>
1589              <see>svccfg(1M)</see>
1590         </event>

1592         <event id="AUE_smf_create_snap" header="0" idNo="85" omit="JNI">
1593              <program>svc.configd(1M)</program>
1594              <see>svccfg(1M)</see>
1595              <entry id="subject">
1596                   <internal token="subject"/>
1597                   <external opt="none"/>
1598              </entry>
1599              <entry id="auth_used">
1600                   <internal token="uauth"/>
1601                   <external opt="required" type="char *"/>
1602                   <comment>authorization used</comment>
1603              </entry>
1604              <entry id="fmri">
1605                   <internal token="fmri"/>
1606                   <external opt="required" type="char *"/>
1607                   <comment>name</comment>
1608              </entry>
1609              <entry id="name">
1610                   <internal token="text"/>
1611                   <external opt="required" type="char *"/>
1612                   <comment>snapshot name</comment>
1613              </entry>
1614              <entry id="return">
1615                   <internal token="return"/>
1616                   <external opt="none"/>
1617              </entry>
1618         </event>
1619         <event id="AUE_smf_delete_snap" header="0" idNo="86" omit="JNI">
1620              <program>svc.configd(1M)</program>
1621              <see>svccfg(1M)</see>
1622              <entry id="subject">
1623                   <internal token="subject"/>
1624                   <external opt="none"/>
1625              </entry>
1626              <entry id="auth_used">
1627                   <internal token="uauth"/>
1628                   <external opt="required" type="char *"/>
1629                   <comment>authorization used</comment>
1630              </entry>
1631              <entry id="fmri">
1632                   <internal token="fmri"/>
1633                   <external opt="required" type="char *"/>
1634                   <comment>name</comment>
1635              </entry>
1636              <entry id="name">
1637                   <internal token="text"/>
1638                   <external opt="required" type="char *"/>
1639                   <comment>snapshot name</comment>
1640              </entry>
1641              <entry id="return">
1642                   <internal token="return"/>
1643                   <external opt="none"/>
1644              </entry>
1645         </event>
```

```
1646         <event id="AUE_smf_attach_snap" header="0" idNo="87" omit="JNI">
1647              <program>svc.configd(1M)</program>
1648              <see>svccfg(1M)</see>
1649              <entry id="subject">
1650                   <internal token="subject"/>
1651                   <external opt="none"/>
1652              </entry>
1653              <entry id="auth_used">
1654                   <internal token="uauth"/>
1655                   <external opt="required" type="char *"/>
1656                   <comment>authorization used</comment>
1657              </entry>
1658              <entry id="old_fmri">
1659                   <internal token="fmri"/>
1660                   <external opt="required" type="char *"/>
1661                   <comment>old name</comment>
1662              </entry>
1663              <entry id="old_name">
1664                   <internal token="text"/>
1665                   <external opt="required" type="char *"/>
1666                   <comment>old snapshot</comment>
1667              </entry>
1668              <entry id="new_fmri">
1669                   <internal token="fmri"/>
1670                   <external opt="required" type="char *"/>
1671                   <comment>new name</comment>
1672              </entry>
1673              <entry id="new_name">
1674                   <internal token="text"/>
1675                   <external opt="required" type="char *"/>
1676                   <comment>new snapshot</comment>
1677              </entry>
1678              <entry id="return">
1679                   <internal token="return"/>
1680                   <external opt="none"/>
1681              </entry>
1682         </event>

1684         <event id="AUE_smf_annotation" header="0" idNo="88" omit="JNI">
1685              <program>svc.configd(1M)</program>
1686              <see>svccfg(1M)</see>
1687              <entry id="subject">
1688                   <internal token="subject"/>
1689                   <external opt="none"/>
1690              </entry>
1691              <entry id="operation">
1692                   <internal token="text"/>
1693                   <external opt="required" type="char *"/>
1694                   <comment>operation</comment>
1695              </entry>
1696              <entry id="file">
1697                   <internal token="path"/>
1698                   <external opt="required" type="char *"/>
1699                   <comment>imported file</comment>
1700              </entry>
1701              <entry id="return">
1702                   <internal token="return"/>
1703                   <external opt="none"/>
1704              </entry>
1705         </event>

1707         <event id="AUE_smf_create_prop" header="0" idNo="89" omit="JNI">
1708              <program>svc.configd(1M)</program>
1709              <see>svccfg(1M)</see>
1710              <entry id="subject">
1711                   <internal token="subject"/>
```

```
1712                     <external opt="none"/>
1713                 </entry>
1714             <entry id="auth_used">
1715                     <internal token="uauth"/>
1716                     <external opt="required" type="char *"/>
1717                     <comment>authorization used</comment>
1718             </entry>
1719             <entry id="fmri">
1720                     <internal token="fmri"/>
1721                     <external opt="required" type="char *"/>
1722                     <comment>name</comment>
1723             </entry>
1724             <entry id="type">
1725                     <internal token="text"/>
1726                     <external opt="required" type="char *"/>
1727                     <comment>type</comment>
1728             </entry>
1729             <entry id="value">
1730                     <internal token="text"/>
1731                     <external opt="optional" type="char *"/>
1732                     <comment>value</comment>
1733             </entry>
1734             <entry id="return">
1735                     <internal token="return"/>
1736                     <external opt="none"/>
1737             </entry>
1738         </event>

1740         <event id="AUE_smf_change_prop" header="0" idNo="90" omit="JNI">
1741             <program>svc.configd(1M)</program>
1742             <see>svccfg(1M)</see>
1743             <entry id="subject">
1744                     <internal token="subject"/>
1745                     <external opt="none"/>
1746             </entry>
1747             <entry id="auth_used">
1748                     <internal token="uauth"/>
1749                     <external opt="required" type="char *"/>
1750                     <comment>authorization used</comment>
1751             </entry>
1752             <entry id="fmri">
1753                     <internal token="fmri"/>
1754                     <external opt="required" type="char *"/>
1755                     <comment>name</comment>
1756             </entry>
1757             <entry id="type">
1758                     <internal token="text"/>
1759                     <external opt="required" type="char *"/>
1760                     <comment>type</comment>
1761             </entry>
1762             <entry id="value">
1763                     <internal token="text"/>
1764                     <external opt="optional" type="char *"/>
1765                     <comment>value</comment>
1766             </entry>
1767             <entry id="return">
1768                     <internal token="return"/>
1769                     <external opt="none"/>
1770             </entry>
1771         </event>
1772         <event id="AUE_smf_delete_prop" header="0" idNo="91" omit="JNI">
1773             <program>svc.configd(1M)</program>
1774             <see>svccfg(1M)</see>
1775             <entry id="subject">
1776                     <internal token="subject"/>
1777                     <external opt="none"/>
```

```
1778             </entry>
1779             <entry id="auth_used">
1780                     <internal token="uauth"/>
1781                     <external opt="required" type="char *"/>
1782                     <comment>authorization used</comment>
1783             </entry>
1784             <entry id="fmri">
1785                     <internal token="fmri"/>
1786                     <external opt="required" type="char *"/>
1787                     <comment>name</comment>
1788             </entry>
1789             <entry id="return">
1790                     <internal token="return"/>
1791                     <external opt="none"/>
1792             </entry>
1793         </event>

1795         <event id="AUE_smf_read_prop" instance_of="AUE_smf_generic" header="0"
1796             idNo="92" omit="JNI">
1797             <program>svc.configd(1M)</program>
1798             <see>svccfg(1M)</see>
1799         </event>

1801 <!-- CPUFreq related events -->

1803         <event id="AUE_cpu_ondemand" header="0" idNo="93" omit="JNI">
1804             <title>set CPU freq to minimal unless load increases</title>
1805             <program>/usr/lib/hal/hald-addon-cpufreq</program>
1806             <see>hald(1M)</see>
1807             <entry id="subject">
1808                     <internal token="subject"/>
1809                     <external opt="none"/>
1810             </entry>
1811             <entry id="auth_used">
1812                     <internal token="uauth"/>
1813                     <external opt="required" type="char *"/>
1814                     <comment>authorization used</comment>
1815             </entry>
1816             <entry id="return">
1817                     <internal token="return"/>
1818                     <external opt="none"/>
1819             </entry>
1820         </event>
1821         <event id="AUE_cpu_performance" header="0" idNo="94" omit="JNI">
1822             <title>set CPU freq to Max</title>
1823             <program>/usr/lib/hal/hald-addon-cpufreq</program>
1824             <see>hald(1M)</see>
1825             <entry id="subject">
1826                     <internal token="subject"/>
1827                     <external opt="none"/>
1828             </entry>
1829             <entry id="auth_used">
1830                     <internal token="uauth"/>
1831                     <external opt="required" type="char *"/>
1832                     <comment>authorization used</comment>
1833             </entry>
1834             <entry id="return">
1835                     <internal token="return"/>
1836                     <external opt="none"/>
1837             </entry>
1838         </event>
1839         <event id="AUE_cpu_threshold" header="0" idNo="95" omit="JNI">
1840             <title>set CPU frequency threshold percentage</title>
1841             <program>/usr/lib/hal/hald-addon-cpufreq</program>
1842             <see>hald(1M)</see>
1843             <entry id="subject">
```

```
1844                <internal token="subject"/>
1845                <external opt="none"/>
1846            </entry>
1847            <entry id="auth_used">
1848                <internal token="uauth"/>
1849                <external opt="required" type="char *"/>
1850                <comment>authorization used</comment>
1851            </entry>
1852            <entry id="threshold">
1853                <internal token="text"/>
1854                <external opt="required" type="int"/>
1855                <comment>threshold percent 1-100</comment>
1856            </entry>
1857            <entry id="return">
1858                <internal token="return"/>
1859                <external opt="none"/>
1860            </entry>
1861        </event>

1863 <!-- TPM events recorded by tcsd(8) -->

1865        <event id="AUE_generic_tpm" type="generic" omit="always">
1866            <entry id="subject">
1867                <internal token="subject"/>
1868                <external opt="none"/>
1869            </entry>
1870            <entry id="message">
1871                <internal token="text"/>
1872                <external opt="optional" type="msg tpm_e"/>
1873                <comment>TPM error message</comment>
1874            </entry>
1875            <entry id="return">
1876                <internal token="return"/>
1877                <external opt="none"/>
1878            </entry>
1879        </event>

1881        <event id="AUE_tpm_takeownership" instance_of="AUE_generic_tpm"
1882            header="0" idNo="99" omit="JNI">
1883            <title>TPM_TakeOwnership</title>
1884            <program>/usr/lib/tcsd</program>
1885            <see>tcsd(8)</see>
1886        </event>
1887        <event id="AUE_tpm_setoperatorauth" instance_of="AUE_generic_tpm"
1888            header="0" idNo="100" omit="JNI">
1889            <title>TPM_SetOperatorAuth</title>
1890            <program>/usr/lib/tcsd</program>
1891            <see>tcsd(8)</see>
1892        </event>
1893        <event id="AUE_tpm_setownerinstall" instance_of="AUE_generic_tpm"
1894            header="0" idNo="101" omit="JNI">
1895            <title>TPM_SetOwnerInstall</title>
1896            <program>/usr/lib/tcsd</program>
1897            <see>tcsd(8)</see>
1898        </event>
1899        <event id="AUE_tpm_selftestfull" instance_of="AUE_generic_tpm"
1900            header="0" idNo="102" omit="JNI">
1901            <title>TPM_SelfTestFull</title>
1902            <program>/usr/lib/tcsd</program>
1903            <see>tcsd(8)</see>
1904        </event>
1905        <event id="AUE_tpm_certifyselftest" instance_of="AUE_generic_tpm"
1906            header="0" idNo="103" omit="JNI">
1907            <title>TPM_CertifySelfTest</title>
1908            <program>/usr/lib/tcsd</program>
1909            <see>tcsd(8)</see>
```

```
1910        </event>
1911        <event id="AUE_tpm_continueselftest" instance_of="AUE_generic_tpm"
1912            header="0" idNo="104" omit="JNI">
1913            <title>TPM_ContinueSelfTest</title>
1914            <program>/usr/lib/tcsd</program>
1915            <see>tcsd(8)</see>
1916        </event>
1917        <event id="AUE_tpm_ownersetdisable" instance_of="AUE_generic_tpm"
1918            header="0" idNo="105" omit="JNI">
1919            <title>TPM_OwnerSetDisable</title>
1920            <program>/usr/lib/tcsd</program>
1921            <see>tcsd(8)</see>
1922        </event>
1923        <event id="AUE_tpm_ownerclear" instance_of="AUE_generic_tpm"
1924            header="0" idNo="106" omit="JNI">
1925            <title>TPM_OwnerClear</title>
1926            <program>/usr/lib/tcsd</program>
1927            <see>tcsd(8)</see>
1928        </event>
1929        <event id="AUE_tpm_disableownerclear" instance_of="AUE_generic_tpm"
1930            header="0" idNo="107" omit="JNI">
1931            <title>TPM_DisableOwnerClear</title>
1932            <program>/usr/lib/tcsd</program>
1933            <see>tcsd(8)</see>
1934        </event>
1935        <event id="AUE_tpm_forceclear" instance_of="AUE_generic_tpm"
1936            header="0" idNo="108" omit="JNI">
1937            <title>TPM_ForceClear</title>
1938            <program>/usr/lib/tcsd</program>
1939            <see>tcsd(8)</see>
1940        </event>
1941        <event id="AUE_tpm_disableforceclear" instance_of="AUE_generic_tpm"
1942            header="0" idNo="109" omit="JNI">
1943            <title>TPM_DisableForceClear</title>
1944            <program>/usr/lib/tcsd</program>
1945            <see>tcsd(8)</see>
1946        </event>
1947        <event id="AUE_tpm_physicaldisable" instance_of="AUE_generic_tpm"
1948            header="0" idNo="110" omit="JNI">
1949            <title>TPM_PhysicalDisable</title>
1950            <program>/usr/lib/tcsd</program>
1951            <see>tcsd(8)</see>
1952        </event>
1953        <event id="AUE_tpm_physicalenable" instance_of="AUE_generic_tpm"
1954            header="0" idNo="111" omit="JNI">
1955            <title>TPM_PhysicalEnsable</title>
1956            <program>/usr/lib/tcsd</program>
1957            <see>tcsd(8)</see>
1958        </event>
1959        <event id="AUE_tpm_physicaldeactivate" instance_of="AUE_generic_tpm"
1960            header="0" idNo="112" omit="JNI">
1961            <title>TPM_PhysicalSetDeactivated</title>
1962            <program>/usr/lib/tcsd</program>
1963            <see>tcsd(8)</see>
1964        </event>
1965        <event id="AUE_tpm_settempdeactivated" instance_of="AUE_generic_tpm"
1966            header="0" idNo="113" omit="JNI">
1967            <title>TPM_SetTempDeactivated</title>
1968            <program>/usr/lib/tcsd</program>
1969            <see>tcsd(8)</see>
1970        </event>
1971        <event id="AUE_tpm_physicalpresence" instance_of="AUE_generic_tpm"
1972            header="0" idNo="114" omit="JNI">
1973            <title>TPM_PhysicalPresence</title>
1974            <program>/usr/lib/tcsd</program>
1975            <see>tcsd(8)</see>
```

```
1976        </event>
1977        <event id="AUE_tpm_fieldupgrade" instance_of="AUE_generic_tpm"
1978            header="0" idNo="115" omit="JNI">
1979            <title>TPM_FieldUpgrade</title>
1980            <program>/usr/lib/tcsd</program>
1981            <see>tcsd(8)</see>
1982        </event>
1983        <event id="AUE_tpm_resetlockvalue" instance_of="AUE_generic_tpm"
1984            header="0" idNo="116" omit="JNI">
1985            <title>TPM_ResetLockValue</title>
1986            <program>/usr/lib/tcsd</program>
1987            <see>tcsd(8)</see>
1988        </event>

1990 <!-- hotplug events recorded by hotplugd(1m) -->

1992        <event id="AUE_hotplug_state" header="0" idNo="117" omit="JNI">
1993            <title>change hotplug connection state</title>
1994            <program>/usr/lib/hotplugd</program>
1995            <see>hotplugd(1M)</see>
1996            <entry id="subject">
1997                <internal token="subject"/>
1998                <external opt="none"/>
1999            </entry>
2000            <entry id="auth_used">
2001                <internal token="uauth"/>
2002                <external opt="required" type="char *"/>
2003                <comment>authorization used</comment>
2004            </entry>
2005            <entry id="device_path">
2006                <internal token="path"/>
2007                <external opt="required" type="char *"/>
2008                <comment>device path</comment>
2009            </entry>
2010            <entry id="connection">
2011                <internal token="text"/>
2012                <external opt="required" type="char *"/>
2013                <comment>connector or port</comment>
2014            </entry>
2015            <entry id="new_state">
2016                <internal token="text"/>
2017                <external opt="required" type="char *"/>
2018                <comment>new connection state</comment>
2019            </entry>
2020            <entry id="old_state">
2021                <internal token="text"/>
2022                <external opt="required" type="char *"/>
2023                <comment>old connection state</comment>
2024            </entry>
2025            <entry id="return">
2026                <internal token="return"/>
2027                <external opt="none"/>
2028            </entry>
2029        </event>

2031        <event id="AUE_hotplug_set" header="0" idNo="118" omit="JNI">
2032            <title>set hotplug bus private options</title>
2033            <program>/usr/lib/hotplugd</program>
2034            <see>hotplugd(1M)</see>
2035            <entry id="subject">
2036                <internal token="subject"/>
2037                <external opt="none"/>
2038            </entry>
2039            <entry id="auth_used">
2040                <internal token="uauth"/>
2041                <external opt="required" type="char *"/>
```

```
2042                <comment>authorization used</comment>
2043            </entry>
2044            <entry id="device_path">
2045                <internal token="path"/>
2046                <external opt="required" type="char *"/>
2047                <comment>device path</comment>
2048            </entry>
2049            <entry id="connection">
2050                <internal token="text"/>
2051                <external opt="required" type="char *"/>
2052                <comment>connector or port</comment>
2053            </entry>
2054            <entry id="options">
2055                <internal token="text"/>
2056                <external opt="required" type="char *"/>
2057                <comment>bus private options</comment>
2058            </entry>
2059            <entry id="return">
2060                <internal token="return"/>
2061                <external opt="none"/>
2062            </entry>
2063        </event>

2065        <event id="AUE_ilb_create_healthcheck" header="0" idNo="120" omit="JNI">
2066            <title>Create Integrated Loadbalancer healthcheck object</title>
2067            <program>/usr/sbin/ilbadm</program>
2068            <see>ilbadm(1m)</see>
2069            <entry id="subject">
2070                <internal token="subject"/>
2071                <external opt="none"/>
2072            </entry>
2073            <entry id="auth_used">
2074                <internal token="uauth"/>
2075                <external opt="required" type="char *"/>
2076                <comment>authorization used</comment>
2077            </entry>
2078            <entry id="hc_test">
2079                <internal token="path"/>
2080                <external opt="required" type="char *"/>
2081                <comment>healthcheck type-PING,TCP,UDP or 3rd party script</comment>
2082            </entry>
2083            <entry id="hc_name">
2084                <internal token="text"/>
2085                <external opt="required" type="char *"/>
2086                <comment>healthcheck name</comment>
2087            </entry>
2088            <entry id="hc_timeout">
2089                <internal token="text"/>
2090                <external opt="required" type="int32_t" />
2091                <comment>timeout(secs) to kill a hung healthcheck probe
2092                    - 0 means default value (see man page)
2093                </comment>
2094            </entry>
2095            <entry id="hc_count">
2096                <internal token="text"/>
2097                <external opt="required" type="int"/>
2098                <comment>number of times to run a health check probe
2099                    before declaring a server to be dead - 0 means
2100                    default value (see man page)
2101                </comment>
2102            </entry>
2103            <entry id="hc_interval">
2104                <internal token="text"/>
2105                <external opt="required" type="int32_t"/>
2106                <comment>time(secs) between 2 healthcheck events -
2107                    0 means default value(see man page)
```

```
2108                    </comment>
2109                </entry>
2110                <entry id="return">
2111                    <internal token="return"/>
2112                    <external opt="none"/>
2113                </entry>
2114            </event>

2116        <event id="AUE_ilb_delete_healthcheck" header="0" idNo="121" omit="JNI">
2117            <title>Delete Integrated Loadbalancer healthcheck object</title>
2118            <program>/usr/sbin/ilbadm</program>
2119            <see>ilbadm(1m)</see>
2120            <entry id="subject">
2121                <internal token="subject"/>
2122                <external opt="none"/>
2123            </entry>
2124            <entry id="auth_used">
2125                <internal token="uauth"/>
2126                <external opt="required" type="char *"/>
2127                <comment>authorization used</comment>
2128            </entry>
2129            <entry id="hc_name">
2130                <internal token="text"/>
2131                <external opt="required" type="char *"/>
2132                <comment>healthcheck name</comment>
2133            </entry>
2134            <entry id="return">
2135                <internal token="return"/>
2136                <external opt="none"/>
2137            </entry>
2138        </event>

2140        <event id="AUE_ilb_create_rule" header="0" idNo="122" omit="JNI">
2141            <title>Create Integrated Loadbalancer rule</title>
2142            <program>/usr/sbin/ilbadm</program>
2143            <see>ilbadm(1m)</see>
2144            <entry id="subject">
2145                <internal token="subject"/>
2146                <external opt="none"/>
2147            </entry>
2148            <entry id="auth_used">
2149                <internal token="uauth"/>
2150                <external opt="required" type="char *"/>
2151                <comment>authorization used</comment>
2152            </entry>
2153            <entry id="virtual_ipaddress_type,virtual_ipaddress">
2154                <internal token="in_remote"/>
2155                <external opt="required" type="int32_t,uint32_t[4]"/>
2156                <comment>LB virtual IP address</comment>
2157            </entry>
2158            <entry id="min_port">
2159                <internal token="iport"/>
2160                <external opt="required" type="uint16_t"/>
2161                <comment>minimum value in port range</comment>
2162            </entry>
2163            <entry id="max_port">
2164                <internal token="iport"/>
2165                <external opt="required" type="uint16_t"/>
2166                <comment>maximum value in port range - max=min means single
2167                    port is specified
2168                </comment>
2169            </entry>
2170            <entry id="protocol">
2171                <internal token="text"/>
2172                <external opt="required" type="char *"/>
2173                <comment>protocol</comment>
```

```
2174            </entry>
2175            <entry id="algo_optype">
2176                <internal token="text"/>
2177                <external opt="required" type="char *"/>
2178                <comment>[rr,hip,hipp,hipv],[dsr,nat,half-nat]</comment>
2179            </entry>
2180            <entry id="proxy_src_min_type,proxy_src_min">
2181                <internal token="in_remote"/>
2182                <external opt="optional" type="int32_t,uint32_t[4]"/>
2183                <comment>min value for proxy source address for NAT</comment>
2184            </entry>
2185            <entry id="proxy_src_max_type,proxy_src_max">
2186                <internal token="in_remote"/>
2187                <external opt="optional" type="int32_t,uint32_t[4]"/>
2188                <comment>max value in proxy source address range for NAT
2189                    - max=min means single address is specified
2190                </comment>
2191            </entry>
2192            <entry id="persist_mask">
2193                <internal token="text"/>
2194                <external opt="required" type="char *"/>
2195                <comment>prefix length</comment>
2196            </entry>
2197            <entry id="hcname">
2198                <internal token="text"/>
2199                <external opt="optional" type="char *"/>
2200                <comment>healthcheck name</comment>
2201            </entry>
2202            <entry id="hcport">
2203                <internal token="text"/>
2204                <external opt="optional" type="char *"/>
2205                <comment>healthcheck port - ANY(dynamically determined by ilbd)
2206                    or a positive integer
2207                </comment>
2208            </entry>
2209            <entry id="conndrain_timeout">
2210                <internal token="text"/>
2211                <external opt="required" type="uint32_t"/>
2212                <comment>connection timeout for NAT/half-NAT in sec. - 0 means
2213                    no forced removal)
2214                </comment>
2215            </entry>
2216            <entry id="nat_timeout">
2217                <internal token="text"/>
2218                <external opt="required" type="uint32_t"/>
2219                <comment>nat entry timeout for NAT/half-NAT in sec - 0 means
2220                    default value(see man page)
2221                </comment>
2222            </entry>
2223            <entry id="persist_timeout">
2224                <internal token="text"/>
2225                <external opt="required" type="uint32_t"/>
2226                <comment>session persistence mapping in sec - 0 means no
2227                    persistence
2228                </comment>
2229            </entry>
2230            <entry id="server_group">
2231                <internal token="text"/>
2232                <external opt="required" type="char *"/>
2233                <comment>server group name</comment>
2234            </entry>
2235            <entry id="rule_name">
2236                <internal token="text"/>
2237                <external opt="required" type="char *"/>
2238                <comment>rule name</comment>
2239            </entry>
```

```
2240            <entry id="return">
2241                <internal token="return"/>
2242                <external opt="none"/>
2243            </entry>
2244        </event>

2246 <!-- generic ILB rule event -->

2248     <event id="AUE_generic_ILB_rule" type="generic" omit="always">
2249         <entry id="subject">
2250             <internal token="subject"/>
2251             <external opt="none"/>
2252         </entry>
2253         <entry id="auth_used">
2254             <internal token="uauth"/>
2255             <external opt="required" type="char *"/>
2256             <comment>authorization used</comment>
2257         </entry>
2258         <entry id="rule_name">
2259             <internal token="text"/>
2260             <external opt="required" type="char *"/>
2261             <comment>rule name - "all" means all rules</comment>
2262         </entry>
2263         <entry id="return">
2264             <internal token="return"/>
2265             <external opt="none"/>
2266         </entry>
2267     </event>

2269 <!-- instances of the ILB generic rule  event. -->
2270     <event id="AUE_ilb_delete_rule" instance_of="AUE_generic_ILB_rule"
2271         header="0" idNo="123">
2272         <title>Delete Integrated Loadbalancer rule</title>
2273         <program>/usr/sbin/ilbadm</program>
2274         <see>ilbadm(1m)</see>
2275     </event>

2277     <event id="AUE_ilb_disable_rule" instance_of="AUE_generic_ILB_rule"
2278         header="0" idNo="124">
2279         <title>Disable Integrated Loadbalancer rule</title>
2280         <program>/usr/sbin/ilbadm</program>
2281         <see>ilbadm(1m)</see>
2282     </event>

2284     <event id="AUE_ilb_enable_rule" instance_of="AUE_generic_ILB_rule"
2285         header="0" idNo="125">
2286         <title>Enable Integrated Loadbalancer rule</title>
2287         <program>/usr/sbin/ilbadm</program>
2288         <see>ilbadm(1m)</see>
2289     </event>

2291     <event id="AUE_ilb_add_server" header="0" idNo="126" omit="JNI">
2292         <title>Add server to Integrated Loadbalancer</title>
2293         <program>/usr/sbin/ilbadm</program>
2294         <see>ilbadm(1m)</see>
2295         <entry id="subject">
2296             <internal token="subject"/>
2297             <external opt="none"/>
2298         </entry>
2299         <entry id="auth_used">
2300             <internal token="uauth"/>
2301             <external opt="required" type="char *"/>
2302             <comment>authorization used</comment>
2303         </entry>
2304         <entry id="server_ipaddress_type,server_ipaddress">
2305             <internal token="in_remote"/>
```

```
2306             <external opt="required" type="int32_t,uint32_t[4]"/>
2307             <comment>IP address</comment>
2308         </entry>
2309         <entry id="server_id">
2310             <internal token="text"/>
2311             <external opt="optional" type="char *"/>
2312             <comment>serverid that corresponds IP address - empty
2313                 if authorization fails, user specified IP address
2314                 is invalid or server cannot be added because
2315                 server group is full
2316             </comment>
2317         </entry>
2318         <entry id="server_group">
2319             <internal token="text"/>
2320             <external opt="required" type="char *"/>
2321             <comment>server group name</comment>
2322         </entry>
2323         <entry id="server_minport">
2324             <internal token="iport"/>
2325             <external opt="optional" type="uint16_t" />
2326             <comment>server's minimum value in port range - empty
2327                 means default value (see man page)
2328             </comment>
2329         </entry>
2330         <entry id="server_maxport">
2331             <internal token="iport"/>
2332             <external opt="optional" type="uint16_t" />
2333             <comment>server's maximum value in port range - empty
2334                 means default value(see man page)
2335             </comment>
2336         </entry>
2337         <entry id="return">
2338             <internal token="return"/>
2339             <external opt="none"/>
2340         </entry>
2341     </event>

2343     <event id="AUE_ilb_disable_server" header="0" idNo="127" omit="JNI">
2344         <title>Disable server to Integrated Loadbalancer</title>
2345         <program>/usr/sbin/ilbadm</program>
2346         <see>ilbadm(1m)</see>
2347         <entry id="subject">
2348             <internal token="subject"/>
2349             <external opt="none"/>
2350         </entry>
2351         <entry id="auth_used">
2352             <internal token="uauth"/>
2353             <external opt="required" type="char *"/>
2354             <comment>authorization used</comment>
2355         </entry>
2356         <entry id="server_id">
2357             <internal token="text"/>
2358             <external opt="required" type="char *"/>
2359             <comment>serverid</comment>
2360         </entry>
2361         <entry id="server_ipaddress_type,server_ipaddress">
2362             <internal token="in_remote"/>
2363             <external opt="optional" type="int32_t,uint32_t[4]"/>
2364             <comment>IPaddr corresponding to the serverid - empty
2365                 if authorization fails, or user specified serverid
2366                 is nonexistent
2367             </comment>
2368         </entry>
2369         <entry id="return">
2370             <internal token="return"/>
2371             <external opt="none"/>
```

```
2372              </entry>
2373          </event>

2375          <event id="AUE_ilb_enable_server" header="0" idNo="128" omit="JNI">
2376              <title>Enable server to Integrated Loadbalancer</title>
2377              <program>/usr/sbin/ilbadm</program>
2378              <see>ilbadm(1m)</see>
2379              <entry id="subject">
2380                  <internal token="subject"/>
2381                  <external opt="none"/>
2382              </entry>
2383              <entry id="auth_used">
2384                  <internal token="uauth"/>
2385                  <external opt="required" type="char *"/>
2386                  <comment>authorization used</comment>
2387              </entry>
2388              <entry id="server_id">
2389                  <internal token="text"/>
2390                  <external opt="required" type="char *"/>
2391                  <comment>serverid</comment>
2392              </entry>
2393              <entry id="server_ipaddress_type,server_ipaddress">
2394                  <internal token="in_remote"/>
2395                  <external opt="optional" type="int32_t,uint32_t[4]"/>
2396                  <comment>IPaddr corresponding to the serverid - empty
2397                      if authorization fails, or user specified serverid
2398                      is nonexistent
2399                  </comment>
2400              </entry>
2401              <entry id="return">
2402                  <internal token="return"/>
2403                  <external opt="none"/>
2404              </entry>
2405          </event>

2407          <event id="AUE_ilb_remove_server" header="0" idNo="129" omit="JNI">
2408              <title>Remove server from Integrated Loadbalancer</title>
2409              <program>/usr/sbin/ilbadm</program>
2410              <see>ilbadm(1m)</see>
2411              <entry id="subject">
2412                  <internal token="subject"/>
2413                  <external opt="none"/>
2414              </entry>
2415              <entry id="auth_used">
2416                  <internal token="uauth"/>
2417                  <external opt="required" type="char *"/>
2418                  <comment>authorization used</comment>
2419              </entry>
2420              <entry id="server_id">
2421                  <internal token="text"/>
2422                  <external opt="required" type="char *"/>
2423                  <comment>serverid</comment>
2424              </entry>
2425              <entry id="server_group">
2426                  <internal token="text"/>
2427                  <external opt="required" type="char *"/>
2428                  <comment>server group name</comment>
2429              </entry>
2430              <entry id="server_ipaddress_type,server_ipaddress">
2431                  <internal token="in_remote"/>
2432                  <external opt="optional" type="int32_t,uint32_t[4]"/>
2433                  <comment>IPaddr corresponding to serverid - empty
2434                      if authorization fails or user specified serverid
2435                      serverid is nonexistent
2436                  </comment>
2437              </entry>
```

```
2438              <entry id="return">
2439                  <internal token="return"/>
2440                  <external opt="none"/>
2441              </entry>
2442          </event>

2444          <event id="AUE_ilb_create_servergroup" header="0" idNo="130" omit="JNI">
2445              <title>Create server group for Integrated Loadbalancer</title>
2446              <program>/usr/sbin/ilbadm</program>
2447              <see>ilbadm(1m)</see>
2448              <entry id="subject">
2449                  <internal token="subject"/>
2450                  <external opt="none"/>
2451              </entry>
2452              <entry id="auth_used">
2453                  <internal token="uauth"/>
2454                  <external opt="required" type="char *"/>
2455                  <comment>authorization used</comment>
2456              </entry>
2457              <entry id="server_group">
2458                  <internal token="text"/>
2459                  <external opt="required" type="char *"/>
2460                  <comment>server group name</comment>
2461              </entry>
2462              <entry id="return">
2463                  <internal token="return"/>
2464                  <external opt="none"/>
2465              </entry>
2466          </event>

2468          <event id="AUE_ilb_delete_servergroup" header="0" idNo="131" omit="JNI">
2469              <title>Delete server group from Integrated Loadbalancer</title>
2470              <program>/usr/sbin/ilbadm</program>
2471              <see>ilbadm(1m)</see>
2472              <entry id="subject">
2473                  <internal token="subject"/>
2474                  <external opt="none"/>
2475              </entry>
2476              <entry id="auth_used">
2477                  <internal token="uauth"/>
2478                  <external opt="required" type="char *"/>
2479                  <comment>authorization used</comment>
2480              </entry>
2481              <entry id="server_group">
2482                  <internal token="text"/>
2483                  <external opt="required" type="char *"/>
2484                  <comment>server group name</comment>
2485              </entry>
2486              <entry id="return">
2487                  <internal token="return"/>
2488                  <external opt="none"/>
2489              </entry>
2490          </event>

2492          <event id="AUE_nwam_enable" header="0" idNo="132" omit="JNI">
2493              <entry id="subject">
2494                  <internal token="subject"/>
2495                  <external opt="none"/>
2496              </entry>
2497              <entry id="profile_type">
2498                  <internal token="text"/>
2499                  <external opt="required" type="char *"/>
2500                  <comment>Type of profile being enabled</comment>
2501              </entry>
2502              <entry id="profile_name">
2503                  <internal token="text"/>
```

```
2504            <external opt="required" type="char *"/>
2505            <comment>Name of profile being enabled</comment>
2506        </entry>
2507        <entry id="return">
2508            <internal token="return"/>
2509            <external opt="none"/>
2510        </entry>
2511    </event>

2513    <event id="AUE_nwam_disable" header="0" idNo="133" omit="JNI">
2514        <entry id="subject">
2515            <internal token="subject"/>
2516            <external opt="none"/>
2517        </entry>
2518        <entry id="profile_type">
2519            <internal token="text"/>
2520            <external opt="required" type="char *"/>
2521            <comment>Type of profile being disabled</comment>
2522        </entry>
2523        <entry id="profile_name">
2524            <internal token="text"/>
2525            <external opt="required" type="char *"/>
2526            <comment>Name of profile being disabled</comment>
2527        </entry>
2528        <entry id="return">
2529            <internal token="return"/>
2530            <external opt="none"/>
2531        </entry>
2532    </event>

2534    <event id="AUE_netcfg_update" header="0" idNo="134" omit="JNI">
2535        <entry id="subject">
2536            <internal token="subject"/>
2537            <external opt="none"/>
2538        </entry>
2539        <entry id="parent_file">
2540            <internal token="text"/>
2541            <external opt="required" type="char *"/>
2542            <comment>Back-end data file being updated</comment>
2543        </entry>
2544        <entry id="object_name">
2545            <internal token="text"/>
2546            <external opt="required" type="char *"/>
2547            <comment>Name of object being updated</comment>
2548        </entry>
2549        <entry id="return">
2550            <internal token="return"/>
2551            <external opt="none"/>
2552        </entry>
2553    </event>

2555    <event id="AUE_netcfg_remove" header="0" idNo="135" omit="JNI">
2556        <entry id="subject">
2557            <internal token="subject"/>
2558            <external opt="none"/>
2559        </entry>
2560        <entry id="parent_file">
2561            <internal token="text"/>
2562            <external opt="required" type="char *"/>
2563            <comment>Back-end data file being modified</comment>
2564        </entry>
2565        <entry id="object_name">
2566            <internal token="text"/>
2567            <external opt="required" type="char *"/>
2568            <comment>Name of object being removed</comment>
2569        </entry>
```

```
2570        <entry id="return">
2571            <internal token="return"/>
2572            <external opt="none"/>
2573        </entry>
2574    </event>
2575    <event id="AUE_uadmin_intrd" instance_of="AUE_uadmin_generic_fcn"
2576        header="0" idNo="136" omit="JNI">
2577        <title>uadmin intrd</title>
2578        <program>/sbin/uadmin</program>
2579        <program>/usr/sbin/uadmin</program>
2580        <see>uadmin(1M)</see>
2581    </event>
2582 #endif /* ! codereview */

2584 <!-- add new events here with the next higher idNo -->
2585 <!-- Highest idNo is 135, so next is 136, then fix this comment -->
2586 <!-- end of C Only events -->

2588 <!--
2589      token definitions are partially implemented.  All they do for now
2590      is create a list of defined token names.  In the future they may
2591      become a way of describing token structure.
2592 -->

2594    <token id="acl">
2595    </token>
2596    <token id="arbitrary">
2597    </token>
2598    <token id="arg">
2599    </token>
2600    <token id="attr">
2601    </token>
2602    <token id="command">
2603    </token>
2604    <token id="command_alt">
2605    </token>
2606    <token id="date">
2607    </token>
2608    <token id="exec_args">
2609    </token>
2610    <token id="exec_env">
2611    </token>
2612    <token id="exit">
2613    </token>
2614    <token id="file">
2615    </token>
2616    <token id="fmri">
2617    </token>
2618    <token id="groups">
2619    </token>
2620    <!--
2621        the iport token take a single argument of type uint16_t
2622        if there are any other tokens following it that have arguments
2623        the last of the iport tokens in the event description must
2624        be followed by a dummy iport token that is optional.
2625        This is to ensure proper structure alignment across all
2626        compliers and architectures.
2627    -->
2628    <token id="iport">
2629    </token>
2630    <!-- pseudo token; in_addr and in_port of peer -->
2631    <token id="in_peer">
2632    </token>
2633    <!-- pseudo token; specified in_addr -->
2634    <token id="in_remote">
2635    </token>
```

```
2636        <token id="ipc">
2637        </token>
2638        <token id="ipc_perm">
2639        </token>
2640        <token id="label">
2641        </token>
2642        <token id="newgroups">
2643        </token>
2644        <token id="opaque">
2645        </token>
2646        <token id="path">
2647        </token>
2648        <!-- pseudo token; path list generates 0 or more path tokens -->
2649        <token id="path_list">
2650        </token>
2651        <!--
2652            privilege token is implemented as one of the pseudo tokens
2653            priv_limit, priv_effective, or priv_inherit

2655        <token id="privilege">
2656        </token>
2657        -->
2658        <token id="priv_effective">
2659        </token>
2660        <token id="priv_inherit">
2661        </token>
2662        <token id="priv_limit">
2663        </token>
2664        <token id="process">
2665        </token>
2666        <token id="return">
2667        </token>
2668        <token id="seq">
2669        </token>
2670        <token id="socket">
2671        </token>
2672        <token id="socket-inet">
2673        </token>
2674        <token id="subject">
2675        </token>
2676        <token id="text">
2677        </token>
2678        <token id="tid">
2679        </token>
2680        <token id="uauth">
2681        </token>
2682        <token id="user">
2683        </token>
2684        <token id="zonename">
2685        </token>

2687 <!--
2688        error value list for return values with success/fail code of fail.
2689        These values start at 1000 so praudit can tell the difference
2690        between the libbsm/common/audit_*.c broken error values and
2691        the new adt_ error value list.  It is public so that praudit
2692        can find it.

2694        praudit outputs "failure" %s" for these strings, so there is
2695        no need to use words such as "failed" in the message.

2697        ** Add to the end only to maintain validity across versions of
2698        the audit log. **
2699 -->

2701        <msg_list id="fail_value" header="0" start="1000" public="true">
```

```
2702            <msg id="PW_ATTR">Attribute update</msg>
2703            <msg id="PW">Password update</msg>
2704            <msg id="USERNAME">bad username</msg>
2705            <msg id="AUTH">authorization failed</msg>
2706            <msg id="UID">bad uid</msg>
2707            <msg id="UNKNOWN">unknown failure</msg>
2708            <msg id="EXPIRED">password expired</msg>
2709            <msg id="ACCOUNT_LOCKED">Account is locked</msg>
2710            <msg id="BAD_DIALUP">Bad dial up</msg>
2711            <msg id="BAD_ID">Invalid ID</msg>
2712            <msg id="BAD_PW">Invalid password</msg>
2713            <msg id="CONSOLE">Not on console</msg>
2714            <msg id="MAX_TRIES">Too many failed attempts</msg>
2715            <msg id="PROTOCOL_FAILURE">Protocol failure</msg>
2716            <msg id="EXCLUDED_USER">Excluded user</msg>
2717            <msg id="ANON_USER">No anonymous</msg>
2718            <msg id="BAD_CMD">Invalid command</msg>
2719            <msg id="BAD_TTY">Standard input not a tty line</msg>
2720            <msg id="PROGRAM">Program failure</msg>
2721            <msg id="CHDIR_FAILED">chdir to home directory</msg>
2722            <msg id="INPUT_OVERFLOW">Input line too long.</msg>
2723            <msg id="DEVICE_PERM">login device override</msg>
2724            <msg id="AUTH_BYPASS">authorization bypass</msg>
2725            <msg id="LOGIN_DISABLED">login disabled</msg>
2726        </msg_list>

2728 <!--
2729        The following empty list is used for PAM errors; the "start"
2730        value is used by praudit to know to use the PAM infrastructure
2731        for generating error strings
2732 -->
2733        <msg_list id="fail_pam" header="0" start="2000" public="true">
2734        </msg_list>

2736 <!--
2737      This is still in use by SMC.  See AUE_generic_login.  When
2738      either SMC is fixed to stop using this, or SMC goes away.
2739      REMOVE this stuff and the corresponding AUE_generic_login
2740      message field.

2742      Message list for the various authentication events, such
2743      as AUE_login and AUE_admin_authenticate.  Add new entries
2744      at the end.  The order of msg_list entries and the order
2745      of msg entries both affect the names in adt.h and the value
2746      of the associated enumerated types.

2748      Each of these messages except NO_MSG is also in the failure_attribute
2749      list; the difference is that the messages below use a text token
2750      in the audit record, while the failure_attribute messages are
2751      associated with the return value of the return token.

2753      This list is deprecated; please don't use text tokens for error
2754      messages.
2755 -->

2757        <msg_list id="login_text" header="0" deprecated="true">
2758            <msg id="NO_MSG"></msg>
2759            <msg id="ACCOUNT_LOCKED">Account is locked</msg>
2760            <msg id="BAD_DIALUP">Bad dial up</msg>
2761            <msg id="BAD_ID">Invalid ID</msg>
2762            <msg id="BAD_PW">Invalid password</msg>
2763            <msg id="CONSOLE">Not on console</msg>
2764            <msg id="MAX_TRIES">Too many failed attempts</msg>
2765            <msg id="PROTOCOL_FAILURE">Protocol failure</msg>
2766            <msg id="EXCLUDED_USER">Excluded user</msg>
2767            <msg id="ANON_USER">No anonymous</msg>
```

```
2768        </msg_list>

2770   <!-- msg list for uadmin(1m) fcn argument (next action, see uadmin(2)) -->
2771       <msg_list id="uadmin_fcn" header="0" start="3000" public="true">
2772           <msg id="AD_HALT">Halt the processor(s)</msg>
2773           <msg id="AD_POWEROFF">Halt the processor(s) and turn off the power</msg>
2774           <msg id="AD_BOOT">Reboot the system using the kernel file</msg>
2775           <msg id="AD_IBOOT">Interactive reboot</msg>
2776           <msg id="AD_SUSPEND_TO_DISK">Save the system state to the state file</ms
2777           <msg id="AD_CHECK_SUSPEND_TO_DISK">Check if system supports suspend to d
2778           <msg id="AD_FORCE">Force suspend to disk even when threads of user
2779           applications are not suspendable</msg>
2780           <msg id="AD_SUSPEND_TO_RAM">Save the system state to memory</msg>
2781           <msg id="AD_CHECK_SUSPEND_TO_RAM">Check if system supports suspend to me
2782           <msg id="AD_SBOOT">Single-user reboot</msg>
2783           <msg id="AD_SIBOOT">Single-user interactive reboot</msg>
2784           <msg id="AD_NOSYNC">Do not sync filesystems on next A_DUMP</msg>
2785           <msg id="AD_FASTREBOOT">Reboot bypassing BIOS and boot loader</msg>
2786           <msg id="AD_FASTREBOOT_DRYRUN">Check if system supports reboot bypassing
2787           <msg id="AD_UPDATE_BOOT_CONFIG">Update boot configuration parameters</ms
2788           <msg id="AD_REUSEINIT">Prepare for AD_REUSABLE</msg>
2789           <msg id="AD_REUSABLE">Create reusable statefile</msg>
2790           <msg id="AD_REUSEFINI">Revert to normal CPR mode (not reusable)</msg>
2791           <msg id="AD_FTRACE_START">ftrace start</msg>
2792           <msg id="AD_FTRACE_STOP">ftrace stop</msg>
2793       </msg_list>

2795   <!--
2796        msg list for TPM errors that will be reported by tcsd(8).
2797        This list must match the order of the TPM_E_* error codes defined
2798        in /usr/include/tss/tpm_error.h (SUNWtss package)
2799   -->
2800       <msg_list id="tpm_e" header="0" start="4000" public="true">
2801           <msg id="AUTHFAIL">Authentication failed</msg>
2802           <msg id="BADINDEX">The index to a PCR, DIR or other register is incorrec
2803           <msg id="BAD_PARAMETER">One or more parameter is bad</msg>
2804           <msg id="AUDITFAILURE">auditing of the operation failed.</msg>
2805           <msg id="CLEAR_DISABLED">clear operations now physical access</msg>
2806           <msg id="DEACTIVATED">The TPM is deactivated</msg>
2807           <msg id="DISABLED">The TPM is disabled</msg>
2808           <msg id="DISABLED_CMD">The target command has been disabled</msg>
2809           <msg id="FAIL">The operation failed</msg>
2810           <msg id="BAD_ORDINAL">The ordinal was unknown or inconsistent</msg>
2811           <msg id="INSTALL_DISABLED">The ability to install an owner is disabled</
2812           <msg id="INVALID_KEYHANDLE">The key handle can not be interpreted</msg>
2813           <msg id="KEYNOTFOUND">The key handle points to an invalid key</msg>
2814           <msg id="INAPPROPRIATE_ENC">Unacceptable encryption scheme</msg>
2815           <msg id="MIGRATEFAIL">Migration authorization failed</msg>
2816           <msg id="INVALID_PCR_INFO">PCR information could not be interpreted</msg>
2817           <msg id="NOSPACE">No room to load key.</msg>
2818           <msg id="NOSRK">There is no SRK set</msg>
2819           <msg id="NOTSEALED_BLOB">An encrypted blob is invalid or was
2820           not created by this TPM</msg>
2821           <msg id="OWNER_SET">There is already an Owner </msg>
2822           <msg id="RESOURCES">The TPM has insufficient internal resources</msg>
2823           <msg id="SHORTRANDOM">A random string was too short</msg>
2824           <msg id="SIZE">The TPM does not have the space to perform the operation.
2825           <msg id="WRONGPCRVAL">The named PCR value does not match the current PCR
2826           <msg id="BAD_PARAM_SIZE">The paramSize argument has the incorrect value
2827           <msg id="SHA_THREAD">There is no existing SHA-1 thread.</msg>
2828           <msg id="SHA_ERROR">SHA-1 thread encountered an error.</msg>
2829           <msg id="FAILEDSELFTEST">Self-test has failed and the TPM has shutdown.<
2830           <msg id="AUTH2FAIL">The auth for the second key failed authorization</ms
2831           <msg id="BADTAG">The tag value sent to for a command is invalid</msg>
2832           <msg id="IOERROR">An IO error occurred transmitting information to the T
2833           <msg id="ENCRYPT_ERROR">The encryption process had a problem.</msg>
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2834           <msg id="DECRYPT_ERROR">The decryption process did not complete.</msg>
2835           <msg id="INVALID_AUTHHANDLE">An invalid handle was used.</msg>
2836           <msg id="NO_ENDORSEMENT">The TPM does not a EK installed</msg>
2837           <msg id="INVALID_KEYUSAGE">The usage of a key is not allowed</msg>
2838           <msg id="WRONG_ENTITYTYPE">The submitted entity type is not allowed</msg
2839           <msg id="INVALID_POSTINIT">The command was received in the wrong sequenc
2840           <msg id="INAPPROPRIATE_SIG">Signed data cannot include additional DER in
2841           <msg id="BAD_KEY_PROPERTY">The key properties are not supported by this
2842           <msg id="BAD_MIGRATION">The migration properties of this key are incorre
2843           <msg id="BAD_SCHEME">Incorrect signature or encryption scheme</msg>
2844           <msg id="BAD_DATASIZE">The size of the data parameter is bad</msg>
2845           <msg id="BAD_MODE">A mode parameter is bad</msg>
2846           <msg id="BAD_PRESENCE">physicalPresence or physicalPresenceLock bits hav
2847           <msg id="BAD_VERSION">The TPM cannot perform this version of the capabil
2848           <msg id="NO_WRAP_TRANSPORT">The TPM does not allow for wrapped transport
2849           <msg id="AUDITFAIL_UNSUCCESSFUL">TPM audit construction failed for faile
2850           <msg id="AUDITFAIL_SUCCESSFUL">TPM audit construction failed for success
2851           <msg id="NOTRESETABLE">PCR register does not have the resettable attribu
2852           <msg id="NOTLOCAL">PCR register requires locality</msg>
2853           <msg id="BAD_TYPE">Make identity blob not properly typed</msg>
2854           <msg id="INVALID_RESOURCE">Resource type does not match actual resource<
2855           <msg id="NOTFIPS">Command only available when TPM is in FIPS mode</msg>
2856           <msg id="INVALID_FAMILY">The command is attempting to use an invalid fam
2857           <msg id="NO_NV_PERMISSION">The permission to manipulate the NV storage i
2858           <msg id="REQUIRES_SIGN">The operation requires a signed command</msg>
2859           <msg id="KEY_NOTSUPPORTED">Wrong operation to load an NV key</msg>
2860           <msg id="AUTH_CONFLICT">NV_LoadKey blob requires both owner and blob aut
2861           <msg id="AREA_LOCKED">The NV area is locked and not writable</msg>
2862           <msg id="BAD_LOCALITY">The locality is incorrect for the attempted opera
2863           <msg id="READ_ONLY">The NV area is read only and can't be written to</ms
2864           <msg id="PER_NOWRITE">There is no protection on the write to the NV area
2865           <msg id="FAMILYCOUNT">The family count value does not match</msg>
2866           <msg id="WRITE_LOCKED">The NV area has already been written to</msg>
2867           <msg id="BAD_ATTRIBUTES">The NV area attributes conflict</msg>
2868           <msg id="INVALID_STRUCTURE">The tag and version are invalid or inconsist
2869           <msg id="KEY_OWNER_CONTROL">The key evicted by the TPM Owner.</msg>
2870           <msg id="BAD_COUNTER">The counter handle is incorrect</msg>
2871           <msg id="NOT_FULLWRITE">The write is not a complete write of the area</m
2872           <msg id="CONTEXT_GAP">The gap between saved context counts is too large<
2873           <msg id="MAXNVWRITES">Max number of NV writes without owner has been exc
2874           <msg id="NOOPERATOR">No operator AuthData value is set</msg>
2875           <msg id="RESOURCEMISSING">The resource pointed to by context is not load
2876           <msg id="DELEGATE_LOCK">The delegate administration is locked</msg>
2877           <msg id="DELEGATE_FAMILY">Attempt to manage a family other then the dele
2878           <msg id="DELEGATE_ADMIN">Delegation table management not enabled</msg>
2879           <msg id="TRANSPORT_NOTEXCLUSIVE">Command executed outside of exclusive t
2880           <msg id="OWNER_CONTROL">Attempt to context save a owner evict controlled
2881           <msg id="DAA_RESOURCES">DAA command has no resources available to execut
2882           <msg id="DAA_INPUT_DATA0">The consistency check on DAA parameter inputDa
2883           <msg id="DAA_INPUT_DATA1">The consistency check on DAA parameter inputDa
2884           <msg id="DAA_ISSUER_SETTINGS">The consistency check on DAA_issuerSetting
2885           <msg id="DAA_TPM_SETTINGS">The consistency check on DAA_tpmSpecific has
2886           <msg id="DAA_STAGE">Atomic process indicated by DAA command is not the e
2887           <msg id="DAA_ISSUER_VALIDITY">Inconsistent issuer validity</msg>
2888           <msg id="DAA_WRONG_W">The consistency check on w has failed.</msg>
2889           <msg id="BAD_HANDLE">The handle is incorrect</msg>
2890           <msg id="BAD_DELEGATE">Delegation is not correct</msg>
2891           <msg id="BADCONTEXT">The context blob is invalid</msg>
2892           <msg id="TOOMANYCONTEXTS">Too many contexts held by the TPM</msg>
2893           <msg id="MA_TICKET_SIGNATURE">Migration authority signature validation f
2894           <msg id="MA_DESTINATION">Migration destination not authenticated</msg>
2895           <msg id="MA_SOURCE">Migration source incorrect</msg>
2896           <msg id="MA_AUTHORITY">Incorrect migration authority</msg>
2897           <msg id="PERMANENTEK">Attempt to revoke the EK and the EK is not revocab
2898           <msg id="BAD_SIGNATURE">Bad signature of CMK ticket</msg>
2899           <msg id="NOCONTEXTSPACE">There is no room in the context list for additi
```

```
2900            <msg id="RETRY">The TPM is too busy to respond to the command immediatel
2901            <msg id="NEEDS_SELFTEST">SelfTestFull has not been run</msg>
2902            <msg id="DOING_SELFTEST">The TPM is currently executing a full selftest<
2903            <msg id="DEFEND_LOCK_RUNNING">TPM is defending against dictionary attack
2904            <msg id="NO_MSG"></msg>
2905            <!-- End TPM failure codes -->
2906        </msg_list>
2907 </specification>
```

```
*********************************************************
    89496 Thu Jul 25 14:31:02 2013
new/usr/src/pkg/manifests/SUNWcs.mf
XXX Rearchitect and replace interrupt distribution
*********************************************************
     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.
     7 #
     8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
     9 # or http://www.opensolaris.org/os/licensing.
    10 # See the License for the specific language governing permissions
    11 # and limitations under the License.
    12 #
    13 # When distributing Covered Code, include this CDDL HEADER in each
    14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
    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 #

    22 #
    23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
    24 # Copyright 2012 Nexenta Systems, Inc. All rights reserved.
    25 #

    27 <include SUNWcs.man1.inc>
    28 <include SUNWcs.man1m.inc>
    29 <include SUNWcs.man4.inc>
    30 <include SUNWcs.man5.inc>
    31 <include SUNWcs.man7d.inc>
    32 <include SUNWcs.man7fs.inc>
    33 set name=pkg.fmri value=pkg:/SUNWcs@$(PKGVERS)
    34 set name=pkg.description \
    35     value="core software for a specific instruction-set architecture"
    36 set name=pkg.summary value="Core Solaris"
    37 set name=info.classification value=org.opensolaris.category.2008:System/Core
    38 set name=variant.arch value=$(ARCH)
    39 dir path=dev group=sys
    40 dir path=etc group=sys
    41 dir path=etc/cron.d group=sys
    42 dir path=etc/crypto group=sys
    43 dir path=etc/crypto/certs group=sys
    44 dir path=etc/crypto/crls group=sys
    45 dir path=etc/default group=sys
    46 dir path=etc/dev group=sys
    47 dir path=etc/devices group=sys
    48 dir path=etc/dfs group=sys
    49 dir path=etc/dhcp group=sys
    50 dir path=etc/fs group=sys
    51 dir path=etc/fs/dev group=sys
    52 dir path=etc/fs/hsfs group=sys
    53 dir path=etc/fs/ufs group=sys
    54 dir path=etc/ftpd group=sys
    55 dir path=etc/inet group=sys
    56 dir path=etc/init.d group=sys
    57 dir path=etc/lib group=sys
    58 dir path=etc/logadm.d group=sys
    59 dir path=etc/mail group=mail
    60 dir path=etc/net group=sys
    61 dir path=etc/net/ticlts group=sys
```

```
    62 dir path=etc/net/ticots group=sys
    63 dir path=etc/net/ticotsord group=sys
    64 dir path=etc/opt group=sys
    65 dir path=etc/rc0.d group=sys
    66 dir path=etc/rc1.d group=sys
    67 dir path=etc/rc2.d group=sys
    68 dir path=etc/rc3.d group=sys
    69 dir path=etc/rcS.d group=sys
    70 dir path=etc/rpcsec group=sys
    71 dir path=etc/saf
    72 dir path=etc/saf/zsmon group=sys
    73 dir path=etc/sasl group=sys
    74 dir path=etc/security group=sys
    75 dir path=etc/security/audit group=sys
    76 dir path=etc/security/audit/localhost group=sys
    77 dir path=etc/security/auth_attr.d group=sys
    78 dir path=etc/security/dev group=sys
    79 dir path=etc/security/exec_attr.d group=sys
    80 dir path=etc/security/lib group=sys
    81 dir path=etc/security/prof_attr.d group=sys
    82 dir path=etc/skel group=sys
    83 dir path=etc/svc group=sys
    84 dir path=etc/svc/profile group=sys
    85 dir path=etc/svc/profile/site group=sys
    86 dir path=etc/svc/volatile group=sys
    87 dir path=etc/sysevent group=sys
    88 dir path=etc/sysevent/config group=sys
    89 dir path=etc/tm group=sys
    90 dir path=etc/user_attr.d group=sys
    91 dir path=export group=sys
    92 dir path=home group=root mode=0555
    93 dir path=lib
    94 dir path=lib/crypto
    95 dir path=lib/inet
    96 dir path=lib/svc
    97 dir path=lib/svc/bin
    98 dir path=lib/svc/capture
    99 dir path=lib/svc/manifest group=sys
   100 dir path=lib/svc/manifest/application group=sys
   101 dir path=lib/svc/manifest/application/management group=sys
   102 dir path=lib/svc/manifest/application/security group=sys
   103 dir path=lib/svc/manifest/device group=sys
   104 dir path=lib/svc/manifest/milestone group=sys
   105 dir path=lib/svc/manifest/network group=sys
   106 dir path=lib/svc/manifest/network/dns group=sys
   107 dir path=lib/svc/manifest/network/ipsec group=sys
   108 dir path=lib/svc/manifest/network/ldap group=sys
   109 dir path=lib/svc/manifest/network/routing group=sys
   110 dir path=lib/svc/manifest/network/rpc group=sys
   111 dir path=lib/svc/manifest/network/shares group=sys
   112 dir path=lib/svc/manifest/network/ssl group=sys
   113 dir path=lib/svc/manifest/platform group=sys
   114 $(sparc_ONLY)dir path=lib/svc/manifest/platform/sun4u group=sys
   115 dir path=lib/svc/manifest/site group=sys
   116 dir path=lib/svc/manifest/system group=sys
   117 dir path=lib/svc/manifest/system/device group=sys
   118 dir path=lib/svc/manifest/system/filesystem group=sys
   119 dir path=lib/svc/manifest/system/security group=sys
   120 dir path=lib/svc/manifest/system/svc group=sys
   121 dir path=lib/svc/method
   122 dir path=lib/svc/monitor
   123 dir path=lib/svc/seed
   124 dir path=lib/svc/share
   125 dir path=mnt group=sys
   126 dir path=opt group=sys
   127 dir path=proc group=root mode=0555
```

```
128 dir path=root group=root mode=0700
129 dir path=sbin group=sys
130 dir path=system group=root
131 dir path=system/contract group=root mode=0555
132 dir path=system/object group=root mode=0555
133 dir path=tmp group=sys mode=1777
134 dir path=usr group=sys
135 dir path=usr/bin
136 dir path=usr/bin/$(ARCH32)
137 dir path=usr/bin/$(ARCH64)
138 dir path=usr/ccs
139 dir path=usr/ccs/bin
140 dir path=usr/demo
141 dir path=usr/games
142 dir path=usr/has
143 dir path=usr/has/bin
144 dir path=usr/has/lib
145 dir path=usr/has/man
146 dir path=usr/has/man/man1has
147 dir path=usr/kernel group=sys
148 dir path=usr/kernel/drv group=sys
149 dir path=usr/kernel/drv/$(ARCH64) group=sys
150 dir path=usr/kernel/exec group=sys
151 dir path=usr/kernel/exec/$(ARCH64) group=sys
152 dir path=usr/kernel/fs group=sys
153 dir path=usr/kernel/fs/$(ARCH64) group=sys
154 dir path=usr/kernel/pcbe group=sys
155 dir path=usr/kernel/pcbe/$(ARCH64) group=sys
156 dir path=usr/kernel/sched group=sys
157 dir path=usr/kernel/sched/$(ARCH64) group=sys
158 dir path=usr/kernel/strmod group=sys
159 dir path=usr/kernel/strmod/$(ARCH64) group=sys
160 dir path=usr/kernel/sys group=sys
161 dir path=usr/kernel/sys/$(ARCH64) group=sys
162 dir path=usr/kvm
163 dir path=usr/lib
164 dir path=usr/lib/$(ARCH64)
165 dir path=usr/lib/audit
166 dir path=usr/lib/class
167 dir path=usr/lib/class/FX
168 dir path=usr/lib/class/IA
169 dir path=usr/lib/class/RT
170 dir path=usr/lib/class/SDC
171 dir path=usr/lib/class/TS
172 dir path=usr/lib/crypto
173 dir path=usr/lib/devfsadm group=sys
174 dir path=usr/lib/devfsadm/linkmod group=sys
175 dir path=usr/lib/fs group=sys
176 dir path=usr/lib/fs/autofs group=sys
177 dir path=usr/lib/fs/autofs/$(ARCH64) group=sys
178 dir path=usr/lib/fs/cachefs group=sys
179 dir path=usr/lib/fs/ctfs group=sys
180 dir path=usr/lib/fs/dev group=sys
181 dir path=usr/lib/fs/fd group=sys
182 dir path=usr/lib/fs/hsfs group=sys
183 dir path=usr/lib/fs/lofs group=sys
184 dir path=usr/lib/fs/mntfs group=sys
185 dir path=usr/lib/fs/nfs group=sys
186 dir path=usr/lib/fs/nfs/$(ARCH64) group=sys
187 dir path=usr/lib/fs/objfs group=sys
188 dir path=usr/lib/fs/proc group=sys
189 dir path=usr/lib/fs/sharefs group=sys
190 dir path=usr/lib/fs/tmpfs group=sys
191 dir path=usr/lib/fs/ufs group=sys
192 dir path=usr/lib/help
193 dir path=usr/lib/help/auths
```

```
194 dir path=usr/lib/help/auths/locale
195 dir path=usr/lib/help/auths/locale/C
196 dir path=usr/lib/help/profiles
197 dir path=usr/lib/help/profiles/locale
198 dir path=usr/lib/help/profiles/locale/C
199 dir path=usr/lib/iconv
200 dir path=usr/lib/inet
201 dir path=usr/lib/inet/$(ARCH32)
202 dir path=usr/lib/inet/$(ARCH64)
203 dir path=usr/lib/inet/dhcp
204 dir path=usr/lib/inet/dhcp/nsu
205 dir path=usr/lib/inet/dhcp/svc
206 dir path=usr/lib/locale
207 dir path=usr/lib/locale/C
208 dir path=usr/lib/locale/C/LC_COLLATE
209 dir path=usr/lib/locale/C/LC_CTYPE
210 dir path=usr/lib/locale/C/LC_MESSAGES
211 dir path=usr/lib/locale/C/LC_MONETARY
212 dir path=usr/lib/locale/C/LC_NUMERIC
213 dir path=usr/lib/locale/C/LC_TIME
214 dir path=usr/lib/netsvc group=sys
215 dir path=usr/lib/pci
216 dir path=usr/lib/rcm
217 dir path=usr/lib/rcm/modules
218 dir path=usr/lib/rcm/scripts
219 dir path=usr/lib/reparse
220 dir path=usr/lib/saf
221 dir path=usr/lib/secure
222 dir path=usr/lib/secure/$(ARCH64)
223 dir path=usr/lib/security
224 dir path=usr/lib/sysevent
225 dir path=usr/lib/sysevent/modules
226 dir path=usr/net group=sys
227 dir path=usr/net/nls group=sys
228 dir path=usr/net/servers group=sys
229 dir path=usr/old
230 dir path=usr/platform group=sys
231 dir path=usr/sadm
232 dir path=usr/sadm/bin
233 dir path=usr/sadm/install
234 dir path=usr/sadm/install/scripts
235 dir path=usr/sbin
236 $(i386_ONLY)dir path=usr/sbin/$(ARCH32)
237 dir path=usr/sbin/$(ARCH64)
238 dir path=usr/share
239 dir path=usr/share/doc group=other
240 dir path=usr/share/doc/ksh
241 dir path=usr/share/doc/ksh/images
242 dir path=usr/share/doc/ksh/images/callouts
243 dir path=usr/share/lib
244 dir path=usr/share/lib/mailx
245 dir path=usr/share/lib/pub
246 dir path=usr/share/lib/tabset
247 dir path=usr/share/lib/xml group=sys
248 dir path=usr/share/lib/xml/dtd group=sys
249 dir path=usr/share/lib/xml/style group=sys
250 dir path=usr/share/man
251 dir path=usr/share/man/man1
252 dir path=usr/share/man/man1m
253 dir path=usr/share/man/man4
254 dir path=usr/share/man/man5
255 dir path=usr/share/man/man7d
256 dir path=usr/share/man/man7fs
257 dir path=usr/share/src group=sys
258 dir path=var group=sys
259 dir path=var/adm group=sys mode=0775
```

```
260 dir path=var/adm/exacct group=adm owner=adm
261 dir path=var/adm/log group=adm owner=adm
262 dir path=var/adm/streams group=sys
263 dir path=var/audit group=sys
264 dir path=var/cores group=sys
265 dir path=var/cron group=sys
266 dir path=var/games
267 dir path=var/idmap group=daemon owner=daemon
268 dir path=var/inet group=sys
269 dir path=var/ld
270 dir path=var/ld/$(ARCH64)
271 dir path=var/log group=sys
272 dir path=var/logadm
273 dir path=var/mail group=mail mode=1777
274 dir path=var/mail/:saved group=mail mode=0775
275 dir path=var/news
276 dir path=var/opt group=sys
277 dir path=var/preserve mode=1777
278 dir path=var/run group=sys
279 dir path=var/sadm group=sys
280 dir path=var/sadm/system group=sys
281 dir path=var/sadm/system/admin group=sys
282 dir path=var/saf
283 dir path=var/saf/zsmon group=sys
284 dir path=var/spool
285 dir path=var/spool/cron group=sys
286 dir path=var/spool/cron/atjobs group=sys
287 dir path=var/spool/cron/crontabs group=sys
288 dir path=var/spool/locks group=uucp owner=uucp
289 dir path=var/svc group=sys
290 dir path=var/svc/log group=sys
291 dir path=var/svc/manifest group=sys
292 dir path=var/svc/manifest/application group=sys
293 dir path=var/svc/manifest/application/management group=sys
294 dir path=var/svc/manifest/application/print group=sys
295 dir path=var/svc/manifest/application/security group=sys
296 dir path=var/svc/manifest/device group=sys
297 dir path=var/svc/manifest/milestone group=sys
298 dir path=var/svc/manifest/network group=sys
299 dir path=var/svc/manifest/network/dns group=sys
300 dir path=var/svc/manifest/network/ipsec group=sys
301 dir path=var/svc/manifest/network/ldap group=sys
302 dir path=var/svc/manifest/network/nfs group=sys
303 dir path=var/svc/manifest/network/nis group=sys
304 dir path=var/svc/manifest/network/routing group=sys
305 dir path=var/svc/manifest/network/rpc group=sys
306 dir path=var/svc/manifest/network/security group=sys
307 dir path=var/svc/manifest/network/shares group=sys
308 dir path=var/svc/manifest/network/ssl group=sys
309 dir path=var/svc/manifest/platform group=sys
310 $(sparc_ONLY)dir path=var/svc/manifest/platform/sun4u group=sys
311 $(sparc_ONLY)dir path=var/svc/manifest/platform/sun4v group=sys
312 dir path=var/svc/manifest/site group=sys
313 dir path=var/svc/manifest/system group=sys
314 dir path=var/svc/manifest/system/device group=sys
315 dir path=var/svc/manifest/system/filesystem group=sys
316 dir path=var/svc/manifest/system/security group=sys
317 dir path=var/svc/manifest/system/svc group=sys
318 dir path=var/svc/profile group=sys
319 dir path=var/tmp group=sys mode=1777
320 driver name=dump perms="dump 0660 root sys"
321 driver name=fssnap \
322     policy="ctl read_priv_set=sys_config write_priv_set=sys_config" \
323     perms="* 0640 root sys" perms="ctl 0666 root sys"
324 driver name=kstat perms="* 0666 root sys"
325 driver name=ksyms perms="* 0666 root sys"
```

```
326 driver name=logindmux
327 driver name=ptm clone_perms="ptmx 0666 root sys"
328 driver name=pts perms="* 0644 root sys" perms="0 0620 root tty" \
329     perms="1 0620 root tty" perms="2 0620 root tty" perms="3 0620 root tty"
330 file path=etc/.login group=sys preserve=renamenew
331 file path=etc/cron.d/.proto group=sys mode=0744
332 file path=etc/cron.d/at.deny group=sys preserve=true
333 file path=etc/cron.d/cron.deny group=sys preserve=true
334 file path=etc/cron.d/queuedefs group=sys
335 file path=etc/crypto/kmf.conf group=sys preserve=true
336 file path=etc/crypto/pkcs11.conf group=sys preserve=true
337 file path=etc/datemsk group=sys mode=0444
338 file path=etc/default/cron group=sys preserve=true
339 file path=etc/default/devfsadm group=sys preserve=true
340 file path=etc/default/fs group=sys preserve=true
341 file path=etc/default/init group=sys preserve=true
342 file path=etc/default/keyserv group=sys preserve=true
343 file path=etc/default/login group=sys preserve=true
344 file path=etc/default/nss group=sys preserve=true
345 file path=etc/default/passwd group=sys preserve=true
346 file path=etc/default/su group=sys preserve=true
347 file path=etc/default/syslogd group=sys preserve=true
348 file path=etc/default/tar group=sys preserve=true
349 file path=etc/default/utmpd group=sys preserve=true
350 file path=etc/dev/reserved_devnames group=sys preserve=true
351 file path=etc/device.tab group=root mode=0444 preserve=true
352 file path=etc/dfs/dfstab group=sys preserve=true
353 file path=etc/dfs/fstypes group=root preserve=true
354 file path=etc/dfs/sharetab group=root mode=0444 preserve=true
355 file path=etc/dgroup.tab group=sys mode=0444 preserve=true
356 file path=etc/dhcp/inittab group=sys preserve=true
357 file path=etc/dhcp/inittab6 group=sys preserve=true
358 file path=etc/dumpdates group=sys mode=0664 preserve=true
359 file path=etc/format.dat group=sys preserve=true
360 file path=etc/fs/dev/mount mode=0555
361 file path=etc/fs/hsfs/mount mode=0555
362 file path=etc/fs/ufs/mount mode=0555
363 file path=etc/ftpd/ftpusers group=sys preserve=true
364 file path=etc/group group=sys preserve=true
365 file path=etc/inet/hosts group=sys preserve=true
366 file path=etc/inet/inetd.conf group=sys preserve=true
367 file path=etc/inet/ipaddrsel.conf group=sys preserve=true
368 file path=etc/inet/netmasks group=sys preserve=true
369 file path=etc/inet/networks group=sys preserve=true
370 file path=etc/inet/protocols group=sys preserve=true
371 file path=etc/inet/services group=sys preserve=true
372 file path=etc/inet/wanboot.conf.sample group=sys mode=0444
373 file path=etc/init.d/PRESERVE group=sys mode=0744 preserve=true
374 file path=etc/init.d/README group=sys preserve=true
375 file path=etc/init.d/cachefs.daemon group=sys mode=0744 preserve=true
376 file path=etc/init.d/ldap.client group=sys mode=0744
377 file path=etc/init.d/nscd group=sys mode=0744
378 file path=etc/init.d/sysetup group=sys mode=0744 preserve=true
379 file path=etc/init.d/ufs_quota group=sys mode=0744 preserve=true
380 file path=etc/inittab group=sys preserve=true
381 file path=etc/ioctl.syscon group=sys preserve=true
382 file path=etc/ksh.kshrc group=sys preserve=renameold
383 file path=etc/logadm.conf group=sys preserve=true timestamp=19700101T000000Z
384 file path=etc/logindevperm group=sys preserve=true
385 file path=etc/magic mode=0444
386 file path=etc/mail/mailx.rc preserve=true
387 file path=etc/mailcap preserve=true
388 file path=etc/mime.types preserve=true
389 file path=etc/mnttab group=root mode=0444 preserve=true
390 file path=etc/motd group=sys preserve=true
391 file path=etc/net/ticlts/hosts group=sys
```

```
392 file path=etc/net/ticlts/services group=sys preserve=true
393 file path=etc/net/ticots/hosts group=sys
394 file path=etc/net/ticots/services group=sys preserve=true
395 file path=etc/net/ticotsord/hosts group=sys
396 file path=etc/net/ticotsord/services group=sys preserve=true
397 file path=etc/netconfig group=sys preserve=true
398 file path=etc/nscd.conf group=sys preserve=true
399 file path=etc/nsswitch.ad group=sys
400 file path=etc/nsswitch.conf group=sys preserve=true
401 file path=etc/nsswitch.dns group=sys
402 file path=etc/nsswitch.files group=sys
403 file path=etc/nsswitch.ldap group=sys
404 file path=etc/pam.conf group=sys preserve=true
405 file path=etc/passwd group=sys preserve=true
406 file path=etc/profile group=sys preserve=true
407 file path=etc/project group=sys preserve=true
408 file path=etc/rc2.d/README group=sys
409 file path=etc/rc3.d/README group=sys
410 file path=etc/rcS.d/README group=sys
411 file path=etc/remote preserve=true
412 file path=etc/rpc group=sys preserve=true
413 file path=etc/saf/_sactab group=sys preserve=true
414 file path=etc/saf/_sysconfig group=sys preserve=true
415 file path=etc/saf/zsmon/_pmtab group=sys preserve=true
416 file path=etc/security/audit_class group=sys preserve=renamenew
417 file path=etc/security/audit_event group=sys preserve=renamenew
418 file path=etc/security/audit_warn group=sys mode=0740 preserve=renamenew
419 file path=etc/security/auth_attr group=sys preserve=true \
420     timestamp=19700101T000000Z
421 file path=etc/security/auth_attr.d/SUNWcs group=sys
422 file path=etc/security/crypt.conf group=sys preserve=renamenew
423 file path=etc/security/dev/audio mode=0400
424 file path=etc/security/dev/fd0 mode=0400
425 file path=etc/security/dev/sr0 mode=0400
426 file path=etc/security/dev/st0 mode=0400
427 file path=etc/security/dev/st1 mode=0400
428 file path=etc/security/exec_attr group=sys preserve=true \
429     timestamp=19700101T000000Z
430 file path=etc/security/exec_attr.d/SUNWcs group=sys
431 file path=etc/security/kmfpolicy.xml
432 file path=etc/security/lib/audio_clean group=sys mode=0555
433 file path=etc/security/lib/fd_clean group=sys mode=0555
434 file path=etc/security/lib/sr_clean group=sys mode=0555
435 file path=etc/security/lib/st_clean group=sys mode=0555
436 file path=etc/security/policy.conf group=sys preserve=true
437 file path=etc/security/priv_names group=sys preserve=true renameold
438 file path=etc/security/prof_attr group=sys preserve=true \
439     timestamp=19700101T000000Z
440 file path=etc/security/prof_attr.d/SUNWcs group=sys
441 file path=etc/shadow group=sys mode=0400 preserve=true
442 file path=etc/skel/.profile group=other preserve=true
443 file path=etc/skel/local.cshrc group=sys preserve=true
444 file path=etc/skel/local.login group=sys preserve=true
445 file path=etc/skel/local.profile group=sys preserve=true
446 file path=etc/svc/profile/generic_limited_net.xml group=sys mode=0444
447 file path=etc/svc/profile/generic_open.xml group=sys mode=0444
448 file path=etc/svc/profile/inetd_generic.xml group=sys mode=0444
449 file path=etc/svc/profile/inetd_upgrade.xml group=sys mode=0444
450 file path=etc/svc/profile/ns_dns.xml group=sys mode=0444
451 file path=etc/svc/profile/ns_files.xml group=sys mode=0444
452 file path=etc/svc/profile/ns_ldap.xml group=sys mode=0444
453 file path=etc/svc/profile/ns_nis.xml group=sys mode=0444
454 file path=etc/svc/profile/ns_none.xml group=sys mode=0444
455 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,SPARC-Enterprise.xml \
456     group=sys mode=0444
457 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,Sun-Fire-15000.xml \
```

```
458     group=sys mode=0444
459 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,Sun-Fire-880.xml \
460     group=sys mode=0444
461 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,Sun-Fire.xml group=sys \
462     mode=0444
463 $(sparc_ONLY)file \
464     path=etc/svc/profile/platform_SUNW,Ultra-Enterprise-10000.xml group=sys \
465     mode=0444
466 $(sparc_ONLY)file \
467     path=etc/svc/profile/platform_SUNW,UltraSPARC-IIi-Netract.xml group=sys \
468     mode=0444
469 file path=etc/svc/profile/platform_none.xml group=sys mode=0444
470 $(sparc_ONLY)file path=etc/svc/profile/platform_sun4v.xml group=sys mode=0444
471 file path=etc/sysevent/config/README group=sys mode=0444
472 file path=etc/sysevent/config/SUNW,EC_dr,ESC_dr_req,sysevent.conf group=sys
473 file path=etc/syslog.conf group=sys preserve=true
474 file path=etc/ttydefs group=sys preserve=true
475 file path=etc/ttysrch group=sys preserve=true
476 file path=etc/user_attr group=sys preserve=true timestamp=19700101T000000Z
477 file path=etc/user_attr.d/SUNWcs group=sys
478 file path=etc/vfstab group=sys preserve=true
479 file path=lib/inet/in.mpathd mode=0555
480 file path=lib/inet/ipmgmtd mode=0555
481 file path=lib/inet/netcfgd mode=0555
482 file path=lib/inet/nwamd mode=0555
483 file path=lib/svc/bin/lsvcrun group=sys mode=0555
484 file path=lib/svc/bin/mfstscan group=sys mode=0555
485 file path=lib/svc/bin/restore_repository group=sys mode=0555
486 file path=lib/svc/bin/sqlite group=sys mode=0555
487 file path=lib/svc/bin/svc.configd group=sys mode=0555
488 file path=lib/svc/bin/svc.ipfd group=sys mode=0555
489 file path=lib/svc/bin/svc.startd group=sys mode=0555
490 file path=lib/svc/manifest/milestone/multi-user-server.xml group=sys mode=0444
491 file path=lib/svc/manifest/milestone/multi-user.xml group=sys mode=0444
492 file path=lib/svc/manifest/milestone/name-services.xml group=sys mode=0444
493 file path=lib/svc/manifest/milestone/network.xml group=sys mode=0444
494 file path=lib/svc/manifest/milestone/single-user.xml group=sys mode=0444
495 file path=lib/svc/manifest/milestone/sysconfig.xml group=sys mode=0444
496 file path=lib/svc/manifest/network/dlmgmt.xml group=sys mode=0444
497 file path=lib/svc/manifest/network/dns/client.xml group=sys mode=0444
498 file path=lib/svc/manifest/network/dns/install.xml group=sys mode=0444
499 file path=lib/svc/manifest/network/forwarding.xml group=sys mode=0444
500 file path=lib/svc/manifest/network/inetd-upgrade.xml group=sys mode=0444
501 file path=lib/svc/manifest/network/inetd.xml group=sys mode=0444
502 file path=lib/svc/manifest/network/ipsec/ike.xml group=sys mode=0444
503 file path=lib/svc/manifest/network/ipsec/ipsecalgs.xml group=sys mode=0444
504 file path=lib/svc/manifest/network/ipsec/manual-key.xml group=sys mode=0444
505 file path=lib/svc/manifest/network/ipsec/policy.xml group=sys mode=0444
506 file path=lib/svc/manifest/network/ldap/client.xml group=sys mode=0444
507 file path=lib/svc/manifest/network/network-initial.xml group=sys mode=0444
508 file path=lib/svc/manifest/network/network-install.xml group=sys mode=0444
509 file path=lib/svc/manifest/network/network-ipmgmt.xml group=sys mode=0444
510 file path=lib/svc/manifest/network/network-ipqos.xml group=sys mode=0444
511 file path=lib/svc/manifest/network/network-iptun.xml group=sys mode=0444
512 file path=lib/svc/manifest/network/network-location.xml group=sys mode=0444
513 file path=lib/svc/manifest/network/network-loopback.xml group=sys mode=0444
514 file path=lib/svc/manifest/network/network-netcfg.xml group=sys mode=0444
515 file path=lib/svc/manifest/network/network-netmask.xml group=sys mode=0444
516 file path=lib/svc/manifest/network/network-physical.xml group=sys mode=0444
517 file path=lib/svc/manifest/network/network-routing-setup.xml group=sys \
518     mode=0444
519 file path=lib/svc/manifest/network/network-service.xml group=sys mode=0444
520 file path=lib/svc/manifest/network/routing/legacy-routing.xml group=sys \
521     mode=0444
522 file path=lib/svc/manifest/network/rpc/bind.xml group=sys mode=0444
523 file path=lib/svc/manifest/network/rpc/keyserv.xml group=sys mode=0444
```

```
524 file path=lib/svc/manifest/network/shares/group.xml group=sys mode=0444
525 file path=lib/svc/manifest/network/shares/reparsed.xml group=sys mode=0444
526 file path=lib/svc/manifest/network/socket-filter-kssl.xml group=sys mode=0444
527 file path=lib/svc/manifest/network/ssl/kssl-proxy.xml group=sys mode=0444
528 file path=lib/svc/manifest/system/auditd.xml group=sys mode=0444
529 file path=lib/svc/manifest/system/auditset.xml group=sys mode=0444
530 file path=lib/svc/manifest/system/boot-archive-update.xml group=sys mode=0444
531 file path=lib/svc/manifest/system/boot-archive.xml group=sys mode=0444
532 file path=lib/svc/manifest/system/boot-config.xml group=sys mode=0444
533 file path=lib/svc/manifest/system/consadm.xml group=sys mode=0444
534 file path=lib/svc/manifest/system/console-login.xml group=sys mode=0444
535 file path=lib/svc/manifest/system/coreadm.xml group=sys mode=0444
536 file path=lib/svc/manifest/system/cron.xml group=sys mode=0444
537 file path=lib/svc/manifest/system/cryptosvc.xml group=sys mode=0444
538 file path=lib/svc/manifest/system/device/allocate.xml group=sys mode=0444
539 file path=lib/svc/manifest/system/device/devices-audio.xml group=sys mode=0444
540 file path=lib/svc/manifest/system/device/devices-local.xml group=sys mode=0444
541 file path=lib/svc/manifest/system/device/mpxio-upgrade.xml group=sys mode=0444
542 file path=lib/svc/manifest/system/early-manifest-import.xml group=sys \
543     mode=0444
544 file path=lib/svc/manifest/system/extended-accounting.xml group=sys mode=0444
545 file path=lib/svc/manifest/system/filesystem/local-fs.xml group=sys mode=0444
546 file path=lib/svc/manifest/system/filesystem/minimal-fs.xml group=sys \
547     mode=0444
548 file path=lib/svc/manifest/system/filesystem/root-fs.xml group=sys mode=0444
549 file path=lib/svc/manifest/system/filesystem/usr-fs.xml group=sys mode=0444
550 $(i386_ONLY)file path=lib/svc/manifest/system/hostid.xml group=sys mode=0444
551 file path=lib/svc/manifest/system/hotplug.xml group=sys mode=0444
552 file path=lib/svc/manifest/system/identity.xml group=sys mode=0444
553 file path=lib/svc/manifest/system/idmap.xml group=sys mode=0444
554 file path=lib/svc/manifest/system/keymap.xml group=sys mode=0444
555 file path=lib/svc/manifest/system/logadm-upgrade.xml group=sys mode=0444
556 file path=lib/svc/manifest/system/manifest-import.xml group=sys mode=0444
557 file path=lib/svc/manifest/system/name-service-cache.xml group=sys mode=0444
558 file path=lib/svc/manifest/system/pfexecd.xml group=sys mode=0444
559 file path=lib/svc/manifest/system/rbac.xml group=sys mode=0444
560 file path=lib/svc/manifest/system/rmtmpfiles.xml group=sys mode=0444
561 file path=lib/svc/manifest/system/sac.xml group=sys mode=0444
562 file path=lib/svc/manifest/system/svc/global.xml group=sys mode=0444
563 file path=lib/svc/manifest/system/svc/restarter.xml group=sys mode=0444
564 file path=lib/svc/manifest/system/system-log.xml group=sys mode=0444
565 file path=lib/svc/manifest/system/utmp.xml group=sys mode=0444
566 file path=lib/svc/manifest/system/vtdaemon.xml group=sys mode=0444
567 file path=lib/svc/method/boot-archive mode=0555
568 file path=lib/svc/method/boot-archive-update mode=0555
569 file path=lib/svc/method/console-login mode=0555
570 file path=lib/svc/method/devices-audio mode=0555
571 file path=lib/svc/method/devices-local mode=0555
572 file path=lib/svc/method/dns-install mode=0555
573 file path=lib/svc/method/fs-local mode=0555
574 file path=lib/svc/method/fs-minimal mode=0555
575 file path=lib/svc/method/fs-root mode=0555
576 file path=lib/svc/method/fs-usr mode=0555
577 file path=lib/svc/method/identity-domain mode=0555
578 file path=lib/svc/method/identity-node mode=0555
579 file path=lib/svc/method/inetd-upgrade mode=0555
580 file path=lib/svc/method/keymap mode=0555
581 file path=lib/svc/method/ldap-client mode=0555
582 file path=lib/svc/method/logadm-upgrade mode=0555
583 file path=lib/svc/method/manifest-import mode=0555
584 file path=lib/svc/method/mpxio-upgrade mode=0555
585 file path=lib/svc/method/net-init mode=0555
586 file path=lib/svc/method/net-install mode=0555
587 file path=lib/svc/method/net-ipmgmt mode=0555
588 file path=lib/svc/method/net-ipqos mode=0555
589 file path=lib/svc/method/net-iptun mode=0555
```

```
590 file path=lib/svc/method/net-loc mode=0555
591 file path=lib/svc/method/net-loopback mode=0555
592 file path=lib/svc/method/net-netmask mode=0555
593 file path=lib/svc/method/net-nwam mode=0555
594 file path=lib/svc/method/net-physical mode=0555
595 file path=lib/svc/method/net-routing-setup mode=0555
596 file path=lib/svc/method/net-svc mode=0555
597 file path=lib/svc/method/rmtmpfiles mode=0555
598 file path=lib/svc/method/rpc-bind mode=0555
599 file path=lib/svc/method/svc-allocate mode=0555
600 file path=lib/svc/method/svc-auditd mode=0555
601 file path=lib/svc/method/svc-auditset mode=0555
602 file path=lib/svc/method/svc-boot-config mode=0555
603 file path=lib/svc/method/svc-consadm mode=0555
604 file path=lib/svc/method/svc-cron mode=0555
605 file path=lib/svc/method/svc-dlmgmtd mode=0555
606 file path=lib/svc/method/svc-forwarding mode=0555
607 $(i386_ONLY)file path=lib/svc/method/svc-hostid mode=0555
608 file path=lib/svc/method/svc-hotplug mode=0555
609 file path=lib/svc/method/svc-legacy-routing mode=0555
610 file path=lib/svc/method/svc-nscd mode=0555
611 file path=lib/svc/method/svc-rbac mode=0555
612 file path=lib/svc/method/svc-sockfilter mode=0555
613 file path=lib/svc/method/svc-utmpd mode=0555
614 file path=lib/svc/method/system-log mode=0555
615 file path=lib/svc/method/vtdaemon mode=0555
616 file path=lib/svc/method/yp mode=0555
617 # global.db is not needed in non-global zones, and it's pretty large.
618 file path=lib/svc/seed/global.db group=sys mode=0444 \
619     variant.opensolaris.zone=global
620 # symmetrically, nonglobal.db is not needed in global zones.
621 file path=lib/svc/seed/nonglobal.db group=sys mode=0444 \
622     variant.opensolaris.zone=nonglobal
623 file path=lib/svc/share/README mode=0444
624 file path=lib/svc/share/fs_include.sh mode=0444
625 file path=lib/svc/share/ipf_include.sh mode=0444
626 file path=lib/svc/share/mfsthistory mode=0444
627 file path=lib/svc/share/net_include.sh mode=0444
628 file path=lib/svc/share/routing_include.sh mode=0444
629 file path=lib/svc/share/smf_include.sh mode=0444
630 file path=root/.bashrc group=root preserve=true
631 file path=root/.profile group=root preserve=true
632 file path=sbin/autopush mode=0555
633 $(i386_ONLY)file path=sbin/biosdev mode=0555
634 file path=sbin/bootadm mode=0555
635 file path=sbin/cryptoadm mode=0555
636 file path=sbin/devprop mode=0555
637 file path=sbin/dhcpagent mode=0555
638 file path=sbin/dhcpinfo mode=0555
639 file path=sbin/dlmgmtd mode=0555
640 file path=sbin/fdisk mode=0555
641 file path=sbin/fiocompress mode=0555
642 file path=sbin/hostconfig mode=0555
643 file path=sbin/ifconfig mode=0555
644 file path=sbin/ifparse mode=0555
645 file path=sbin/init group=sys mode=0555
646 $(i386_ONLY)file path=sbin/installgrub group=sys mode=0555
647 file path=sbin/ipmpstat mode=0555
648 file path=sbin/mount mode=0555
649 file path=sbin/mountall group=sys mode=0555
650 file path=sbin/netstrategy mode=0555
651 file path=sbin/rc0 group=sys mode=0744
652 file path=sbin/rc1 group=sys mode=0744
653 file path=sbin/rc2 group=sys mode=0744
654 file path=sbin/rc3 group=sys mode=0744
655 file path=sbin/rcS group=sys mode=0744
```

```
656 file path=sbin/route mode=0555
657 file path=sbin/routeadm mode=0555
658 file path=sbin/soconfig mode=0555
659 file path=sbin/su.static group=sys mode=0555
660 file path=sbin/sulogin mode=0555
661 file path=sbin/swapadd group=sys mode=0744
662 file path=sbin/sync mode=0555
663 file path=sbin/tzreload mode=0555
664 file path=sbin/uadmin group=sys mode=0555
665 file path=sbin/umount mode=0555
666 file path=sbin/umountall group=sys mode=0555
667 file path=sbin/uname mode=0555
668 file path=sbin/wusbadm mode=0555
669 file path=sbin/zonename mode=0555
670 $(i386_ONLY)file path=usr/bin/$(ARCH32)/amt mode=0555
671 file path=usr/bin/$(ARCH32)/decrypt mode=0555
672 file path=usr/bin/$(ARCH32)/digest mode=0555
673 file path=usr/bin/$(ARCH32)/ksh93 mode=0555
674 $(i386_ONLY)file path=usr/bin/$(ARCH32)/newtask group=sys mode=4555
675 $(i386_ONLY)file path=usr/bin/$(ARCH32)/nohup mode=0555
676 $(i386_ONLY)file path=usr/bin/$(ARCH32)/prctl mode=0555
677 $(i386_ONLY)file path=usr/bin/$(ARCH32)/prstat mode=0555
678 $(i386_ONLY)file path=usr/bin/$(ARCH32)/ps mode=0555
679 file path=usr/bin/$(ARCH32)/savecore mode=0555
680 $(i386_ONLY)file path=usr/bin/$(ARCH32)/setuname mode=0555
681 $(i386_ONLY)file path=usr/bin/$(ARCH32)/uptime mode=4555
682 file path=usr/bin/$(ARCH64)/amt mode=0555
683 file path=usr/bin/$(ARCH64)/crle mode=0555
684 file path=usr/bin/$(ARCH64)/decrypt mode=0555
685 file path=usr/bin/$(ARCH64)/digest mode=0555
686 file path=usr/bin/$(ARCH64)/ksh93 mode=0555
687 file path=usr/bin/$(ARCH64)/ls mode=0555
688 file path=usr/bin/$(ARCH64)/moe mode=0555
689 file path=usr/bin/$(ARCH64)/newtask group=sys mode=4555
690 file path=usr/bin/$(ARCH64)/nohup mode=0555
691 file path=usr/bin/$(ARCH64)/prctl mode=0555
692 file path=usr/bin/$(ARCH64)/prstat mode=0555
693 file path=usr/bin/$(ARCH64)/ps mode=0555
694 file path=usr/bin/$(ARCH64)/savecore mode=0555
695 file path=usr/bin/$(ARCH64)/setuname mode=0555
696 file path=usr/bin/$(ARCH64)/uptime mode=4555
697 $(i386_ONLY)file path=usr/bin/addbadsec mode=0555
698 file path=usr/bin/alias mode=0555
699 file path=usr/bin/amt mode=0555
700 file path=usr/bin/arch mode=0555
701 file path=usr/bin/at group=sys mode=4755
702 file path=usr/bin/atq group=sys mode=4755
703 file path=usr/bin/atrm group=sys mode=4755
704 file path=usr/bin/auths mode=0555
705 file path=usr/bin/basename mode=0555
706 file path=usr/bin/busstat mode=0555
707 file path=usr/bin/captoinfo mode=0555
708 file path=usr/bin/cat mode=0555
709 file path=usr/bin/chgrp mode=0555
710 file path=usr/bin/chmod mode=0555
711 file path=usr/bin/chown mode=0555
712 file path=usr/bin/ckdate mode=0555
713 file path=usr/bin/ckgid mode=0555
714 file path=usr/bin/ckint mode=0555
715 file path=usr/bin/ckitem mode=0555
716 file path=usr/bin/ckkeywd mode=0555
717 file path=usr/bin/ckpath mode=0555
718 file path=usr/bin/ckrange mode=0555
719 file path=usr/bin/ckstr mode=0555
720 file path=usr/bin/cktime mode=0555
721 file path=usr/bin/ckuid mode=0555
```

```
722 file path=usr/bin/ckyorn mode=0555
723 file path=usr/bin/clear mode=0555
724 file path=usr/bin/coreadm mode=0555
725 file path=usr/bin/cp mode=0555
726 file path=usr/bin/cpio mode=0555
727 file path=usr/bin/crle mode=0555
728 file path=usr/bin/crontab mode=4555
729 file path=usr/bin/crypt mode=0555
730 file path=usr/bin/csh mode=0555
731 file path=usr/bin/ctrun mode=0555
732 file path=usr/bin/ctstat mode=0555
733 file path=usr/bin/ctwatch mode=0555
734 file path=usr/bin/date mode=0555
735 file path=usr/bin/dd mode=0555
736 file path=usr/bin/devattr mode=0555
737 file path=usr/bin/devfree mode=0555
738 file path=usr/bin/devreserv mode=0555
739 file path=usr/bin/dirname mode=0555
740 $(i386_ONLY)file path=usr/bin/diskscan mode=0555
741 file path=usr/bin/domainname mode=0555
742 file path=usr/bin/du mode=0555
743 file path=usr/bin/dumpcs mode=0555
744 file path=usr/bin/dumpkeys mode=0555
745 file path=usr/bin/echo mode=0555
746 file path=usr/bin/ed mode=0555
747 file path=usr/bin/egrep mode=0555
748 file path=usr/bin/eject mode=0555
749 file path=usr/bin/env mode=0555
750 file path=usr/bin/expr mode=0555
751 file path=usr/bin/false mode=0555
752 file path=usr/bin/fdetach mode=0555
753 file path=usr/bin/fdformat mode=4555
754 file path=usr/bin/fgrep mode=0555
755 file path=usr/bin/file mode=0555
756 file path=usr/bin/find mode=0555
757 file path=usr/bin/fmt mode=0555
758 file path=usr/bin/fmtmsg mode=0555
759 file path=usr/bin/fold mode=0555
760 file path=usr/bin/fsstat mode=0555
761 file path=usr/bin/geniconvtbl mode=0555
762 file path=usr/bin/getconf mode=0555
763 file path=usr/bin/getdev mode=0555
764 file path=usr/bin/getdgrp mode=0555
765 file path=usr/bin/getent mode=0555
766 file path=usr/bin/getfacl mode=0555
767 file path=usr/bin/getopt mode=0555
768 file path=usr/bin/gettext mode=0555
769 file path=usr/bin/getvol mode=0555
770 file path=usr/bin/grep mode=0555
771 file path=usr/bin/groups mode=0555
772 file path=usr/bin/head mode=0555
773 file path=usr/bin/hostid mode=0555
774 file path=usr/bin/hostname mode=0555
775 file path=usr/bin/i286 mode=0555
776 file path=usr/bin/iconv mode=0555
777 file path=usr/bin/id mode=0555
778 file path=usr/bin/infocmp mode=0555
779 file path=usr/bin/iostat mode=0555
780 file path=usr/bin/isainfo mode=0555
781 file path=usr/bin/isalist mode=0555
782 file path=usr/bin/kbd mode=0555
783 file path=usr/bin/keylogin mode=0555
784 file path=usr/bin/keylogout mode=0555
785 file path=usr/bin/kmfcfg mode=0555
786 file path=usr/bin/kvmstat mode=0555
787 file path=usr/bin/line mode=0555
```

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788 file path=usr/bin/listdgrp mode=0555
789 file path=usr/bin/listusers mode=0555
790 file path=usr/bin/loadkeys mode=0555
791 file path=usr/bin/logger mode=0555
792 file path=usr/bin/login mode=4555
793 file path=usr/bin/logins mode=0750
794 file path=usr/bin/ls mode=0555
795 file path=usr/bin/m4 mode=0555
796 file path=usr/bin/mach mode=0555
797 file path=usr/bin/mail group=mail mode=2511
798 file path=usr/bin/mailx group=mail mode=2511
799 file path=usr/bin/makedev mode=0555
800 file path=usr/bin/mesg mode=0555
801 file path=usr/bin/mkdir mode=0555
802 file path=usr/bin/mkpwdict mode=0555
803 file path=usr/bin/mktemp mode=0555
804 file path=usr/bin/moe mode=0555
805 file path=usr/bin/more mode=0555
806 file path=usr/bin/mpstat mode=0555
807 file path=usr/bin/mt mode=0555
808 file path=usr/bin/netstat mode=0555
809 file path=usr/bin/newgrp group=sys mode=4755
810 file path=usr/bin/nice mode=0555
811 file path=usr/bin/optisa mode=0555
812 file path=usr/bin/pagesize mode=0555
813 file path=usr/bin/passwd group=sys mode=6555
814 file path=usr/bin/pathchk mode=0555
815 file path=usr/bin/pax mode=0555
816 file path=usr/bin/pfexec mode=0555
817 file path=usr/bin/pg mode=0555
818 file path=usr/bin/pgrep mode=0555
819 file path=usr/bin/pktool mode=0555
820 file path=usr/bin/pr mode=0555
821 file path=usr/bin/printf mode=0555
822 file path=usr/bin/priocntl mode=0555
823 file path=usr/bin/profiles mode=0555
824 file path=usr/bin/projects mode=0555
825 file path=usr/bin/putdev mode=0555
826 file path=usr/bin/putdgrp mode=0555
827 file path=usr/bin/pwd mode=0555
828 file path=usr/bin/renice mode=0555
829 file path=usr/bin/rm mode=0555
830 file path=usr/bin/rmdir mode=0555
831 file path=usr/bin/roles mode=0555
832 file path=usr/bin/rpcinfo mode=0555
833 file path=usr/bin/runat mode=0555
834 file path=usr/bin/script mode=0555
835 file path=usr/bin/sed mode=0555
836 file path=usr/bin/setfacl mode=0555
837 file path=usr/bin/setpgrp group=sys mode=0555
838 file path=usr/bin/settime mode=0555
839 file path=usr/bin/shcomp mode=0555
840 file path=usr/bin/strchg group=root mode=0555
841 file path=usr/bin/strconf group=root mode=0555
842 file path=usr/bin/stty mode=0555
843 file path=usr/bin/su group=sys mode=4555
844 file path=usr/bin/svcprop mode=0555
845 file path=usr/bin/svcs mode=0555
846 file path=usr/bin/tabs mode=0555
847 file path=usr/bin/tail mode=0555
848 file path=usr/bin/tic mode=0555
849 file path=usr/bin/time mode=0555
850 file path=usr/bin/tip mode=4511 owner=uucp
851 file path=usr/bin/tpmadm mode=0555
852 file path=usr/bin/tput mode=0555
853 file path=usr/bin/tr mode=0555
```

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854 file path=usr/bin/true mode=0555
855 file path=usr/bin/tty mode=0555
856 file path=usr/bin/tzselect mode=0555
857 file path=usr/bin/userattr mode=0555
858 file path=usr/bin/vmstat mode=0555
859 file path=usr/bin/which mode=0555
860 file path=usr/bin/who mode=0555
861 file path=usr/bin/wracct mode=0555
862 file path=usr/bin/write group=tty mode=2555
863 file path=usr/bin/xargs mode=0555
864 file path=usr/bin/xstr mode=0555
865 file path=usr/has/bin/edit mode=0555
866 file path=usr/has/bin/sh mode=0555
867 file path=usr/has/man/man1has/edit.1has
868 file path=usr/has/man/man1has/ex.1has
869 file path=usr/has/man/man1has/sh.1has
870 file path=usr/has/man/man1has/vi.1has
871 file path=usr/kernel/drv/$(ARCH64)/dump group=sys
872 file path=usr/kernel/drv/$(ARCH64)/fssnap group=sys
873 file path=usr/kernel/drv/$(ARCH64)/kstat group=sys
874 file path=usr/kernel/drv/$(ARCH64)/ksyms group=sys
875 file path=usr/kernel/drv/$(ARCH64)/logindmux group=sys
876 file path=usr/kernel/drv/$(ARCH64)/ptm group=sys
877 file path=usr/kernel/drv/$(ARCH64)/pts group=sys
878 $(i386_ONLY)file path=usr/kernel/drv/dump group=sys
879 file path=usr/kernel/drv/dump.conf group=sys
880 $(i386_ONLY)file path=usr/kernel/drv/fssnap group=sys
881 file path=usr/kernel/drv/fssnap.conf group=sys
882 $(i386_ONLY)file path=usr/kernel/drv/kstat group=sys
883 file path=usr/kernel/drv/kstat.conf group=sys
884 $(i386_ONLY)file path=usr/kernel/drv/ksyms group=sys
885 file path=usr/kernel/drv/ksyms.conf group=sys
886 $(i386_ONLY)file path=usr/kernel/drv/logindmux group=sys
887 file path=usr/kernel/drv/logindmux.conf group=sys
888 $(i386_ONLY)file path=usr/kernel/drv/ptm group=sys
889 file path=usr/kernel/drv/ptm.conf group=sys
890 $(i386_ONLY)file path=usr/kernel/drv/pts group=sys
891 file path=usr/kernel/drv/pts.conf group=sys
892 file path=usr/kernel/exec/$(ARCH64)/javaexec group=sys mode=0755
893 file path=usr/kernel/exec/$(ARCH64)/shbinexec group=sys mode=0755
894 $(i386_ONLY)file path=usr/kernel/exec/javaexec group=sys mode=0755
895 $(i386_ONLY)file path=usr/kernel/exec/shbinexec group=sys mode=0755
896 file path=usr/kernel/fs/$(ARCH64)/fdfs group=sys mode=0755
897 file path=usr/kernel/fs/$(ARCH64)/pcfs group=sys mode=0755
898 $(i386_ONLY)file path=usr/kernel/fs/fdfs group=sys mode=0755
899 $(i386_ONLY)file path=usr/kernel/fs/pcfs group=sys mode=0755
900 file path=usr/kernel/sched/$(ARCH64)/FX group=sys mode=0755
901 file path=usr/kernel/sched/$(ARCH64)/FX_DPTBL group=sys mode=0755
902 file path=usr/kernel/sched/$(ARCH64)/IA group=sys mode=0755
903 file path=usr/kernel/sched/$(ARCH64)/RT group=sys mode=0755
904 file path=usr/kernel/sched/$(ARCH64)/RT_DPTBL group=sys mode=0755
905 $(i386_ONLY)file path=usr/kernel/sched/FX group=sys mode=0755
906 $(i386_ONLY)file path=usr/kernel/sched/FX_DPTBL group=sys mode=0755
907 $(i386_ONLY)file path=usr/kernel/sched/IA group=sys mode=0755
908 $(i386_ONLY)file path=usr/kernel/sched/RT group=sys mode=0755
909 $(i386_ONLY)file path=usr/kernel/sched/RT_DPTBL group=sys mode=0755
910 file path=usr/kernel/strmod/$(ARCH64)/cryptmod group=sys mode=0755
911 file path=usr/kernel/strmod/$(ARCH64)/rlmod group=sys mode=0755
912 file path=usr/kernel/strmod/$(ARCH64)/telmod group=sys mode=0755
913 $(i386_ONLY)file path=usr/kernel/strmod/cryptmod group=sys mode=0755
914 $(i386_ONLY)file path=usr/kernel/strmod/rlmod group=sys mode=0755
915 $(i386_ONLY)file path=usr/kernel/strmod/telmod group=sys mode=0755
916 file path=usr/kernel/sys/$(ARCH64)/acctctl group=sys mode=0755
917 file path=usr/kernel/sys/$(ARCH64)/exacctsys group=sys mode=0755
918 file path=usr/kernel/sys/$(ARCH64)/sysacct group=sys mode=0755
919 $(i386_ONLY)file path=usr/kernel/sys/acctctl group=sys mode=0755
```

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 920 $(i386_ONLY)file path=usr/kernel/sys/exacctsys group=sys mode=0755
 921 $(i386_ONLY)file path=usr/kernel/sys/sysacct group=sys mode=0755
 922 file path=usr/kvm/README group=sys
 923 file path=usr/lib/$(ARCH64)/libshare.so.1
 924 file path=usr/lib/audit/audit_record_attr mode=0444
 925 file path=usr/lib/calprog mode=0555
 926 file path=usr/lib/class/FX/FXdispadmin mode=0555
 927 file path=usr/lib/class/FX/FXpriocntl mode=0555
 928 file path=usr/lib/class/IA/IAdispadmin mode=0555
 929 file path=usr/lib/class/IA/IApriocntl mode=0555
 930 file path=usr/lib/class/RT/RTdispadmin mode=0555
 931 file path=usr/lib/class/RT/RTpriocntl mode=0555
 932 file path=usr/lib/class/SDC/SDCdispadmin mode=0555
 933 file path=usr/lib/class/SDC/SDCpriocntl mode=0555
 934 file path=usr/lib/class/TS/TSdispadmin mode=0555
 935 file path=usr/lib/class/TS/TSpriocntl mode=0555
 936 file path=usr/lib/devfsadm/linkmod/SUNW_audio_link.so group=sys
 937 file path=usr/lib/devfsadm/linkmod/SUNW_cfg_link.so group=sys
 938 file path=usr/lib/devfsadm/linkmod/SUNW_disk_link.so group=sys
 939 file path=usr/lib/devfsadm/linkmod/SUNW_fssnap_link.so group=sys
 940 file path=usr/lib/devfsadm/linkmod/SUNW_ieee1394_link.so group=sys
 941 file path=usr/lib/devfsadm/linkmod/SUNW_lofi_link.so group=sys
 942 file path=usr/lib/devfsadm/linkmod/SUNW_md_link.so group=sys
 943 file path=usr/lib/devfsadm/linkmod/SUNW_misc_link.so group=sys
 944 file path=usr/lib/devfsadm/linkmod/SUNW_misc_link_$(ARCH).so group=sys
 945 file path=usr/lib/devfsadm/linkmod/SUNW_port_link.so group=sys
 946 file path=usr/lib/devfsadm/linkmod/SUNW_ramdisk_link.so group=sys
 947 file path=usr/lib/devfsadm/linkmod/SUNW_sgen_link.so group=sys
 948 file path=usr/lib/devfsadm/linkmod/SUNW_smp_link.so group=sys
 949 file path=usr/lib/devfsadm/linkmod/SUNW_tape_link.so group=sys
 950 file path=usr/lib/devfsadm/linkmod/SUNW_usb_link.so group=sys
 951 $(i386_ONLY)file path=usr/lib/devfsadm/linkmod/SUNW_xen_link.so group=sys
 952 file path=usr/lib/diffh mode=0555
 953 file path=usr/lib/expreserve mode=0555
 954 file path=usr/lib/exrecover mode=0555
 955 file path=usr/lib/fs/cachefs/cachefsd mode=0555
 956 file path=usr/lib/fs/cachefs/cachefslog mode=0555
 957 file path=usr/lib/fs/cachefs/cachefspack mode=0555
 958 file path=usr/lib/fs/cachefs/cachefsstat mode=0555
 959 file path=usr/lib/fs/cachefs/cachefswssize mode=0555
 960 file path=usr/lib/fs/cachefs/cfsadmin mode=0555
 961 file path=usr/lib/fs/cachefs/cfsfstype mode=0555
 962 file path=usr/lib/fs/cachefs/cfstagchk mode=0555
 963 file path=usr/lib/fs/cachefs/dfshares mode=0555
 964 file path=usr/lib/fs/cachefs/fsck mode=0555
 965 file path=usr/lib/fs/cachefs/mount mode=0555
 966 file path=usr/lib/fs/cachefs/share mode=0555
 967 file path=usr/lib/fs/cachefs/umount mode=0555
 968 file path=usr/lib/fs/cachefs/unshare mode=0555
 969 file path=usr/lib/fs/ctfs/mount mode=0555
 970 file path=usr/lib/fs/fd/mount mode=0555
 971 file path=usr/lib/fs/hsfs/fstyp.so.1 mode=0555
 972 file path=usr/lib/fs/hsfs/labelit mode=0555
 973 file path=usr/lib/fs/lofs/mount mode=0555
 974 file path=usr/lib/fs/mntfs/mount mode=0555
 975 file path=usr/lib/fs/objfs/mount mode=0555
 976 file path=usr/lib/fs/proc/mount mode=0555
 977 file path=usr/lib/fs/sharefs/mount mode=0555
 978 file path=usr/lib/fs/tmpfs/mount mode=0555
 979 file path=usr/lib/fs/ufs/clri mode=0555
 980 file path=usr/lib/fs/ufs/df mode=0555
 981 file path=usr/lib/fs/ufs/edquota mode=0555
 982 file path=usr/lib/fs/ufs/ff mode=0555
 983 file path=usr/lib/fs/ufs/fsck mode=0555
 984 file path=usr/lib/fs/ufs/fsckall mode=0555
 985 file path=usr/lib/fs/ufs/fsdb mode=0555
```

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 986 file path=usr/lib/fs/ufs/fsirand mode=0555
 987 file path=usr/lib/fs/ufs/fssnap mode=0555
 988 file path=usr/lib/fs/ufs/fstyp.so.1 mode=0555
 989 file path=usr/lib/fs/ufs/labelit mode=0555
 990 file path=usr/lib/fs/ufs/lockfs mode=0555
 991 file path=usr/lib/fs/ufs/mkfs mode=0555
 992 file path=usr/lib/fs/ufs/ncheck mode=0555
 993 file path=usr/lib/fs/ufs/newfs mode=0555
 994 file path=usr/lib/fs/ufs/quot mode=0555
 995 file path=usr/lib/fs/ufs/quota mode=4555
 996 file path=usr/lib/fs/ufs/quotacheck mode=0555
 997 file path=usr/lib/fs/ufs/quotaoff mode=0555
 998 file path=usr/lib/fs/ufs/repquota mode=0555
 999 file path=usr/lib/fs/ufs/tunefs mode=0555
1000 file path=usr/lib/fs/ufs/ufsdump mode=4555
1001 file path=usr/lib/fs/ufs/ufsrestore mode=4555
1002 file path=usr/lib/fs/ufs/volcopy mode=0555
1003 file path=usr/lib/getoptcvt mode=0555
1004 file path=usr/lib/help/auths/locale/C/AllSolAuthsHeader.html
1005 file path=usr/lib/help/auths/locale/C/AuditHeader.html
1006 file path=usr/lib/help/auths/locale/C/AuthJobsAdmin.html
1007 file path=usr/lib/help/auths/locale/C/AuthJobsUser.html
1008 file path=usr/lib/help/auths/locale/C/AuthProfmgrAssign.html
1009 file path=usr/lib/help/auths/locale/C/AuthProfmgrDelegate.html
1010 file path=usr/lib/help/auths/locale/C/AuthProfmgrExecattrWrite.html
1011 file path=usr/lib/help/auths/locale/C/AuthProfmgrRead.html
1012 file path=usr/lib/help/auths/locale/C/AuthProfmgrWrite.html
1013 file path=usr/lib/help/auths/locale/C/AuthReadNDMP.html
1014 file path=usr/lib/help/auths/locale/C/AuthReadSMB.html
1015 file path=usr/lib/help/auths/locale/C/AuthRoleAssign.html
1016 file path=usr/lib/help/auths/locale/C/AuthRoleDelegate.html
1017 file path=usr/lib/help/auths/locale/C/AuthRoleWrite.html
1018 file path=usr/lib/help/auths/locale/C/BindStates.html
1019 file path=usr/lib/help/auths/locale/C/DevAllocHeader.html
1020 file path=usr/lib/help/auths/locale/C/DevAllocate.html
1021 file path=usr/lib/help/auths/locale/C/DevConfig.html
1022 file path=usr/lib/help/auths/locale/C/DevGrant.html
1023 file path=usr/lib/help/auths/locale/C/DevRevoke.html
1024 file path=usr/lib/help/auths/locale/C/DhcpmgrHeader.html
1025 file path=usr/lib/help/auths/locale/C/DhcpmgrWrite.html
1026 file path=usr/lib/help/auths/locale/C/HotplugHeader.html
1027 file path=usr/lib/help/auths/locale/C/HotplugModify.html
1028 file path=usr/lib/help/auths/locale/C/IdmapRules.html
1029 file path=usr/lib/help/auths/locale/C/JobHeader.html
1030 file path=usr/lib/help/auths/locale/C/JobsGrant.html
1031 file path=usr/lib/help/auths/locale/C/LinkSecurity.html
1032 file path=usr/lib/help/auths/locale/C/LoginEnable.html
1033 file path=usr/lib/help/auths/locale/C/LoginHeader.html
1034 file path=usr/lib/help/auths/locale/C/LoginRemote.html
1035 file path=usr/lib/help/auths/locale/C/NetworkAutoconfRead.html
1036 file path=usr/lib/help/auths/locale/C/NetworkAutoconfSelect.html
1037 file path=usr/lib/help/auths/locale/C/NetworkAutoconfWlan.html
1038 file path=usr/lib/help/auths/locale/C/NetworkAutoconfWrite.html
1039 file path=usr/lib/help/auths/locale/C/NetworkHeader.html
1040 file path=usr/lib/help/auths/locale/C/NetworkILBconf.html
1041 file path=usr/lib/help/auths/locale/C/NetworkILBenable.html
1042 file path=usr/lib/help/auths/locale/C/NetworkInterfaceConfig.html
1043 file path=usr/lib/help/auths/locale/C/NetworkVRRP.html
1044 file path=usr/lib/help/auths/locale/C/PriAdmin.html
1045 file path=usr/lib/help/auths/locale/C/ProfmgrHeader.html
1046 file path=usr/lib/help/auths/locale/C/RoleHeader.html
1047 file path=usr/lib/help/auths/locale/C/SmfAllocate.html
1048 file path=usr/lib/help/auths/locale/C/SmfAutofsStates.html
1049 file path=usr/lib/help/auths/locale/C/SmfCoreadmStates.html
1050 file path=usr/lib/help/auths/locale/C/SmfCronStates.html
1051 file path=usr/lib/help/auths/locale/C/SmfExAcctFlowStates.html
```

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1052 file path=usr/lib/help/auths/locale/C/SmfExAcctNetStates.html
1053 file path=usr/lib/help/auths/locale/C/SmfExAcctProcessStates.html
1054 file path=usr/lib/help/auths/locale/C/SmfExAcctTaskStates.html
1055 file path=usr/lib/help/auths/locale/C/SmfHeader.html
1056 file path=usr/lib/help/auths/locale/C/SmfILBStates.html
1057 file path=usr/lib/help/auths/locale/C/SmfIPsecStates.html
1058 file path=usr/lib/help/auths/locale/C/SmfIdmapStates.html
1059 file path=usr/lib/help/auths/locale/C/SmfInetdStates.html
1060 file path=usr/lib/help/auths/locale/C/SmfLocationStates.html
1061 file path=usr/lib/help/auths/locale/C/SmfMDNSStates.html
1062 file path=usr/lib/help/auths/locale/C/SmfManageAudit.html
1063 file path=usr/lib/help/auths/locale/C/SmfManageHeader.html
1064 file path=usr/lib/help/auths/locale/C/SmfManageHotplug.html
1065 file path=usr/lib/help/auths/locale/C/SmfManageZFSSnap.html
1066 file path=usr/lib/help/auths/locale/C/SmfModifyAppl.html
1067 file path=usr/lib/help/auths/locale/C/SmfModifyDepend.html
1068 file path=usr/lib/help/auths/locale/C/SmfModifyFramework.html
1069 file path=usr/lib/help/auths/locale/C/SmfModifyHeader.html
1070 file path=usr/lib/help/auths/locale/C/SmfModifyMethod.html
1071 file path=usr/lib/help/auths/locale/C/SmfNADDStates.html
1072 file path=usr/lib/help/auths/locale/C/SmfNDMPStates.html
1073 file path=usr/lib/help/auths/locale/C/SmfNWAMStates.html
1074 file path=usr/lib/help/auths/locale/C/SmfNscdStates.html
1075 file path=usr/lib/help/auths/locale/C/SmfPowerStates.html
1076 file path=usr/lib/help/auths/locale/C/SmfReparseStates.html
1077 file path=usr/lib/help/auths/locale/C/SmfRoutingStates.html
1078 file path=usr/lib/help/auths/locale/C/SmfSMBFSStates.html
1079 file path=usr/lib/help/auths/locale/C/SmfSMBStates.html
1080 file path=usr/lib/help/auths/locale/C/SmfSendmailStates.html
1081 file path=usr/lib/help/auths/locale/C/SmfSshStates.html
1082 file path=usr/lib/help/auths/locale/C/SmfSyslogStates.html
1083 file path=usr/lib/help/auths/locale/C/SmfVRRPStates.html
1084 file path=usr/lib/help/auths/locale/C/SmfValueAudit.html
1085 file path=usr/lib/help/auths/locale/C/SmfValueCoreadm.html
1086 file path=usr/lib/help/auths/locale/C/SmfValueExAcctFlow.html
1087 file path=usr/lib/help/auths/locale/C/SmfValueExAcctNet.html
1088 file path=usr/lib/help/auths/locale/C/SmfValueExAcctProcess.html
1089 file path=usr/lib/help/auths/locale/C/SmfValueExAcctTask.html
1090 file path=usr/lib/help/auths/locale/C/SmfValueFirewall.html
1091 file path=usr/lib/help/auths/locale/C/SmfValueHeader.html
1092 file path=usr/lib/help/auths/locale/C/SmfValueIPsec.html
1093 file path=usr/lib/help/auths/locale/C/SmfValueIdmap.html
1094 file path=usr/lib/help/auths/locale/C/SmfValueInetd.html
1095 file path=usr/lib/help/auths/locale/C/SmfValueMDNS.html
1096 file path=usr/lib/help/auths/locale/C/SmfValueNADD.html
1097 file path=usr/lib/help/auths/locale/C/SmfValueNDMP.html
1098 file path=usr/lib/help/auths/locale/C/SmfValueNWAM.html
1099 file path=usr/lib/help/auths/locale/C/SmfValueRouting.html
1100 file path=usr/lib/help/auths/locale/C/SmfValueSMB.html
1101 file path=usr/lib/help/auths/locale/C/SmfValueVscan.html
1102 file path=usr/lib/help/auths/locale/C/SmfValueVt.html
1103 file path=usr/lib/help/auths/locale/C/SmfVscanStates.html
1104 file path=usr/lib/help/auths/locale/C/SmfVtStates.html
1105 file path=usr/lib/help/auths/locale/C/SmfWpaStates.html
1106 file path=usr/lib/help/auths/locale/C/SysCpuPowerMgmt.html
1107 file path=usr/lib/help/auths/locale/C/SysDate.html
1108 file path=usr/lib/help/auths/locale/C/SysHeader.html
1109 file path=usr/lib/help/auths/locale/C/SysMaintenance.html
1110 file path=usr/lib/help/auths/locale/C/SysPowerMgmtBrightness.html
1111 file path=usr/lib/help/auths/locale/C/SysPowerMgmtHeader.html
1112 file path=usr/lib/help/auths/locale/C/SysPowerMgmtSuspend.html
1113 file path=usr/lib/help/auths/locale/C/SysPowerMgmtSuspendtoDisk.html
1114 file path=usr/lib/help/auths/locale/C/SysPowerMgmtSuspendtoRAM.html
1115 file path=usr/lib/help/auths/locale/C/SysShutdown.html
1116 file path=usr/lib/help/auths/locale/C/SysSyseventRead.html
1117 file path=usr/lib/help/auths/locale/C/SysSyseventWrite.html
```

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1118 file path=usr/lib/help/auths/locale/C/WifiConfig.html
1119 file path=usr/lib/help/auths/locale/C/WifiWep.html
1120 file path=usr/lib/help/auths/locale/C/ZoneCloneFrom.html
1121 file path=usr/lib/help/auths/locale/C/ZoneHeader.html
1122 file path=usr/lib/help/auths/locale/C/ZoneLogin.html
1123 file path=usr/lib/help/auths/locale/C/ZoneManage.html
1124 file path=usr/lib/help/profiles/locale/C/RtAcctadm.html
1125 file path=usr/lib/help/profiles/locale/C/RtAll.html
1126 file path=usr/lib/help/profiles/locale/C/RtAuditCfg.html
1127 file path=usr/lib/help/profiles/locale/C/RtAuditCtrl.html
1128 file path=usr/lib/help/profiles/locale/C/RtAuditReview.html
1129 file path=usr/lib/help/profiles/locale/C/RtCPUPowerManagement.html
1130 file path=usr/lib/help/profiles/locale/C/RtConsUser.html
1131 file path=usr/lib/help/profiles/locale/C/RtContractObserver.html
1132 file path=usr/lib/help/profiles/locale/C/RtCronMngmnt.html
1133 file path=usr/lib/help/profiles/locale/C/RtCryptoMngmnt.html
1134 file path=usr/lib/help/profiles/locale/C/RtDHCPMngmnt.html
1135 file path=usr/lib/help/profiles/locale/C/RtDatAdmin.html
1136 file path=usr/lib/help/profiles/locale/C/RtDefault.html
1137 file path=usr/lib/help/profiles/locale/C/RtDeviceMngmnt.html
1138 file path=usr/lib/help/profiles/locale/C/RtDeviceSecurity.html
1139 file path=usr/lib/help/profiles/locale/C/RtExAcctFlow.html
1140 file path=usr/lib/help/profiles/locale/C/RtExAcctNet.html
1141 file path=usr/lib/help/profiles/locale/C/RtExAcctProcess.html
1142 file path=usr/lib/help/profiles/locale/C/RtExAcctTask.html
1143 file path=usr/lib/help/profiles/locale/C/RtFTPMngmnt.html
1144 file path=usr/lib/help/profiles/locale/C/RtFileSysMngmnt.html
1145 file path=usr/lib/help/profiles/locale/C/RtFileSysSecurity.html
1146 file path=usr/lib/help/profiles/locale/C/RtHotplugMngmnt.html
1147 file path=usr/lib/help/profiles/locale/C/RtIPFilterMngmnt.html
1148 file path=usr/lib/help/profiles/locale/C/RtIdmapMngmnt.html
1149 file path=usr/lib/help/profiles/locale/C/RtIdmapNameRulesMngmnt.html
1150 file path=usr/lib/help/profiles/locale/C/RtInetdMngmnt.html
1151 file path=usr/lib/help/profiles/locale/C/RtKerberosClntMngmnt.html
1152 file path=usr/lib/help/profiles/locale/C/RtKerberosSrvrMngmnt.html
1153 file path=usr/lib/help/profiles/locale/C/RtLogMngmnt.html
1154 file path=usr/lib/help/profiles/locale/C/RtMailMngmnt.html
1155 file path=usr/lib/help/profiles/locale/C/RtMaintAndRepair.html
1156 file path=usr/lib/help/profiles/locale/C/RtMediaBkup.html
1157 file path=usr/lib/help/profiles/locale/C/RtMediaCtlg.html
1158 file path=usr/lib/help/profiles/locale/C/RtMediaRestore.html
1159 file path=usr/lib/help/profiles/locale/C/RtNDMPMngmnt.html
1160 file path=usr/lib/help/profiles/locale/C/RtNameServiceAdmin.html
1161 file path=usr/lib/help/profiles/locale/C/RtNameServiceSecure.html
1162 file path=usr/lib/help/profiles/locale/C/RtNetAutoconfAdmin.html
1163 file path=usr/lib/help/profiles/locale/C/RtNetAutoconfUser.html
1164 file path=usr/lib/help/profiles/locale/C/RtNetILB.html
1165 file path=usr/lib/help/profiles/locale/C/RtNetIPsec.html
1166 file path=usr/lib/help/profiles/locale/C/RtNetLinkSecure.html
1167 file path=usr/lib/help/profiles/locale/C/RtNetMngmnt.html
1168 file path=usr/lib/help/profiles/locale/C/RtNetObservability.html
1169 file path=usr/lib/help/profiles/locale/C/RtNetSecure.html
1170 file path=usr/lib/help/profiles/locale/C/RtNetVRRP.html
1171 file path=usr/lib/help/profiles/locale/C/RtNetWifiMngmnt.html
1172 file path=usr/lib/help/profiles/locale/C/RtNetWifiSecure.html
1173 file path=usr/lib/help/profiles/locale/C/RtObAccessMngmnt.html
1174 file path=usr/lib/help/profiles/locale/C/RtOperator.html
1175 file path=usr/lib/help/profiles/locale/C/RtPriAdmin.html
1176 file path=usr/lib/help/profiles/locale/C/RtPrntAdmin.html
1177 file path=usr/lib/help/profiles/locale/C/RtProcManagement.html
1178 file path=usr/lib/help/profiles/locale/C/RtReparseMngmnt.html
1179 file path=usr/lib/help/profiles/locale/C/RtReservedProfile.html
1180 file path=usr/lib/help/profiles/locale/C/RtRightsDelegate.html
1181 file path=usr/lib/help/profiles/locale/C/RtSMBFSMngmnt.html
1182 file path=usr/lib/help/profiles/locale/C/RtSMBMngmnt.html
1183 file path=usr/lib/help/profiles/locale/C/RtSoftwareInstall.html
```

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1184 file path=usr/lib/help/profiles/locale/C/RtSysAdmin.html
1185 file path=usr/lib/help/profiles/locale/C/RtSysEvMngmnt.html
1186 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmt.html
1187 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtBrightness.html
1188 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtSuspend.html
1189 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtSuspendtoDisk.html
1190 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtSuspendtoRAM.html
1191 file path=usr/lib/help/profiles/locale/C/RtUserMngmnt.html
1192 file path=usr/lib/help/profiles/locale/C/RtUserSecurity.html
1193 file path=usr/lib/help/profiles/locale/C/RtVscanMngmnt.html
1194 file path=usr/lib/help/profiles/locale/C/RtZFSFileSysMngmnt.html
1195 file path=usr/lib/help/profiles/locale/C/RtZFSStorageMngmnt.html
1196 file path=usr/lib/help/profiles/locale/C/RtZoneMngmnt.html
1197 file path=usr/lib/help/profiles/locale/C/RtZoneSecurity.html
1198 file path=usr/lib/hotplugd mode=0555
1199 file path=usr/lib/iconv/646da.8859.t mode=0444
1200 file path=usr/lib/iconv/646de.8859.t mode=0444
1201 file path=usr/lib/iconv/646en.8859.t mode=0444
1202 file path=usr/lib/iconv/646es.8859.t mode=0444
1203 file path=usr/lib/iconv/646fr.8859.t mode=0444
1204 file path=usr/lib/iconv/646it.8859.t mode=0444
1205 file path=usr/lib/iconv/646sv.8859.t mode=0444
1206 file path=usr/lib/iconv/8859.646.t mode=0444
1207 file path=usr/lib/iconv/8859.646da.t mode=0444
1208 file path=usr/lib/iconv/8859.646de.t mode=0444
1209 file path=usr/lib/iconv/8859.646en.t mode=0444
1210 file path=usr/lib/iconv/8859.646es.t mode=0444
1211 file path=usr/lib/iconv/8859.646fr.t mode=0444
1212 file path=usr/lib/iconv/8859.646it.t mode=0444
1213 file path=usr/lib/iconv/8859.646sv.t mode=0444
1214 file path=usr/lib/iconv/iconv_data mode=0444
1215 file path=usr/lib/idmapd mode=0555
1216 file path=usr/lib/inet/$(ARCH32)/in.iked mode=0555
1217 file path=usr/lib/inet/$(ARCH64)/in.iked mode=0555
1218 file path=usr/lib/inet/certdb mode=0555
1219 file path=usr/lib/inet/certlocal mode=0555
1220 file path=usr/lib/inet/certrldb mode=0555
1221 file path=usr/lib/inet/inetd mode=0555
1222 file path=usr/lib/intrd mode=0555
1222 file path=usr/lib/isaexec mode=0555
1223 file path=usr/lib/kssladm mode=0555
1224 $(sparc_ONLY)file path=usr/lib/ld.so
1225 file path=usr/lib/libshare.so.1
1226 file path=usr/lib/makekey mode=0555
1227 file path=usr/lib/more.help
1228 file path=usr/lib/newsyslog group=sys mode=0555
1229 file path=usr/lib/passmgmt group=sys mode=0555
1230 file path=usr/lib/pci/pcidr mode=0555
1231 file path=usr/lib/pci/pcidr_plugin.so
1232 file path=usr/lib/pfexecd mode=0555
1233 file path=usr/lib/platexec mode=0555
1234 file path=usr/lib/rcm/modules/SUNW_aggr_rcm.so mode=0555
1235 file path=usr/lib/rcm/modules/SUNW_cluster_rcm.so mode=0555
1236 file path=usr/lib/rcm/modules/SUNW_dump_rcm.so mode=0555
1237 file path=usr/lib/rcm/modules/SUNW_filesys_rcm.so mode=0555
1238 file path=usr/lib/rcm/modules/SUNW_ibpart_rcm.so mode=0555
1239 file path=usr/lib/rcm/modules/SUNW_ip_anon_rcm.so mode=0555
1240 file path=usr/lib/rcm/modules/SUNW_ip_rcm.so mode=0555
1241 file path=usr/lib/rcm/modules/SUNW_mpxio_rcm.so mode=0555
1242 file path=usr/lib/rcm/modules/SUNW_network_rcm.so mode=0555
1243 file path=usr/lib/rcm/modules/SUNW_swap_rcm.so mode=0555
1244 $(sparc_ONLY)file path=usr/lib/rcm/modules/SUNW_ttymux_rcm.so mode=0555
1245 file path=usr/lib/rcm/modules/SUNW_vlan_rcm.so mode=0555
1246 file path=usr/lib/rcm/modules/SUNW_vnic_rcm.so mode=0555
1247 file path=usr/lib/rcm/rcm_daemon mode=0555
1248 file path=usr/lib/reparse/reparsed group=sys mode=0555
```

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1249 file path=usr/lib/saf/listen group=sys mode=0755
1250 file path=usr/lib/saf/nlps_server group=sys mode=0755
1251 file path=usr/lib/saf/sac group=sys mode=0555
1252 file path=usr/lib/saf/ttymon group=sys mode=0555
1253 file path=usr/lib/sysevent/modules/datalink_mod.so
1254 file path=usr/lib/sysevent/modules/devfsadmd_mod.so
1255 file path=usr/lib/sysevent/modules/sysevent_conf_mod.so
1256 file path=usr/lib/sysevent/modules/sysevent_reg_mod.so
1257 file path=usr/lib/sysevent/syseventconfd mode=0555
1258 file path=usr/lib/sysevent/syseventd mode=0555
1259 file path=usr/lib/utmp_update mode=4555
1260 file path=usr/lib/utmpd mode=0555
1261 file path=usr/lib/vtdaemon mode=0555
1262 file path=usr/lib/vtinfo mode=0555
1263 file path=usr/lib/vtxlock mode=0555
1264 file path=usr/sadm/bin/puttext mode=0555
1265 file path=usr/sadm/install/miniroot.db group=sys mode=0444
1266 file path=usr/sadm/install/scripts/i.ipsecalgs group=sys mode=0555
1267 file path=usr/sadm/install/scripts/i.kcfconf group=sys mode=0555
1268 file path=usr/sadm/install/scripts/i.kmfconf group=sys mode=0555
1269 file path=usr/sadm/install/scripts/i.manifest group=sys mode=0555
1270 file path=usr/sadm/install/scripts/i.pkcs11conf group=sys mode=0555
1271 file path=usr/sadm/install/scripts/i.rbac group=sys mode=0555
1272 file path=usr/sadm/install/scripts/r.ipsecalgs group=sys mode=0555
1273 file path=usr/sadm/install/scripts/r.kcfconf group=sys mode=0555
1274 file path=usr/sadm/install/scripts/r.kmfconf group=sys mode=0555
1275 file path=usr/sadm/install/scripts/r.manifest group=sys mode=0555
1276 file path=usr/sadm/install/scripts/r.pkcs11conf group=sys mode=0555
1277 file path=usr/sadm/install/scripts/r.rbac group=sys mode=0555
1278 file path=usr/sadm/ugdates mode=0444
1279 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/add_drv group=sys mode=0555
1280 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/modinfo group=sys mode=0555
1281 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/modload group=sys mode=0555
1282 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/modunload group=sys mode=0555
1283 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/pbind group=sys mode=0555
1284 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/prtconf group=sys mode=2555
1285 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/psrset group=sys mode=0555
1286 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/rem_drv group=sys mode=0555
1287 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/swap group=sys mode=2555
1288 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/sysdef group=sys mode=2555
1289 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/update_drv group=sys mode=0555
1290 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/whodo mode=4555
1291 file path=usr/sbin/$(ARCH64)/add_drv group=sys mode=0555
1292 file path=usr/sbin/$(ARCH64)/modinfo group=sys mode=0555
1293 file path=usr/sbin/$(ARCH64)/modload group=sys mode=0555
1294 file path=usr/sbin/$(ARCH64)/modunload group=sys mode=0555
1295 file path=usr/sbin/$(ARCH64)/pbind group=sys mode=0555
1296 file path=usr/sbin/$(ARCH64)/prtconf group=sys mode=2555
1297 file path=usr/sbin/$(ARCH64)/psrset group=sys mode=0555
1298 file path=usr/sbin/$(ARCH64)/rem_drv group=sys mode=0555
1299 file path=usr/sbin/$(ARCH64)/swap group=sys mode=2555
1300 file path=usr/sbin/$(ARCH64)/sysdef group=sys mode=2555
1301 file path=usr/sbin/$(ARCH64)/update_drv group=sys mode=0555
1302 file path=usr/sbin/$(ARCH64)/whodo mode=4555
1303 file path=usr/sbin/6to4relay mode=0555
1304 file path=usr/sbin/acctadm mode=0555
1305 file path=usr/sbin/allocate mode=4555
1306 file path=usr/sbin/arp mode=0555
1307 file path=usr/sbin/audit mode=0555
1308 file path=usr/sbin/auditconfig mode=0555
1309 file path=usr/sbin/auditd mode=0555
1310 file path=usr/sbin/auditrecord mode=0555
1311 file path=usr/sbin/auditreduce mode=0555
1312 file path=usr/sbin/auditstat mode=0555
1313 file path=usr/sbin/cfgadm mode=0555
1314 file path=usr/sbin/chroot mode=0555
```

```
1315 file path=usr/sbin/clear_locks mode=0555
1316 file path=usr/sbin/clinfo mode=0555
1317 file path=usr/sbin/clri mode=0555
1318 file path=usr/sbin/consadm group=sys mode=0555
1319 file path=usr/sbin/cron group=sys mode=0555
1320 file path=usr/sbin/devfsadm group=sys mode=0755
1321 file path=usr/sbin/devinfo mode=0555
1322 file path=usr/sbin/df mode=0555
1323 file path=usr/sbin/dfmounts mode=0555
1324 file path=usr/sbin/dispadmin mode=0555
1325 file path=usr/sbin/dminfo mode=0555
1326 file path=usr/sbin/dumpadm mode=0555
1327 file path=usr/sbin/eeprom group=sys mode=2555
1328 file path=usr/sbin/ff mode=0555
1329 file path=usr/sbin/fmthard group=sys mode=0555
1330 file path=usr/sbin/format mode=0555
1331 file path=usr/sbin/fsck mode=0555
1332 file path=usr/sbin/fstyp group=sys mode=0555
1333 file path=usr/sbin/fuser mode=0555
1334 file path=usr/sbin/getdevpolicy group=sys mode=0555
1335 file path=usr/sbin/getmajor group=sys mode=0755
1336 file path=usr/sbin/groupadd group=sys mode=0555
1337 file path=usr/sbin/groupdel group=sys mode=0555
1338 file path=usr/sbin/groupmod group=sys mode=0555
1339 file path=usr/sbin/grpck mode=0555
1340 file path=usr/sbin/halt mode=0755
1341 file path=usr/sbin/hotplug mode=0555
1342 file path=usr/sbin/idmap mode=0555
1343 file path=usr/sbin/if_mpadm mode=0555
1344 file path=usr/sbin/ikeadm mode=0555
1345 file path=usr/sbin/ikecert mode=0555
1346 file path=usr/sbin/inetadm mode=0555
1347 file path=usr/sbin/inetconv mode=0555
1348 file path=usr/sbin/install mode=0555
1349 file path=usr/sbin/installboot group=sys mode=0555
1350 file path=usr/sbin/ipaddrsel mode=0555
1351 file path=usr/sbin/ipsecalgs mode=0555
1352 file path=usr/sbin/ipsecconf mode=0555
1353 file path=usr/sbin/ipseckey mode=0555
1354 file path=usr/sbin/keyserv group=sys mode=0555
1355 file path=usr/sbin/killall mode=0555
1356 file path=usr/sbin/ksslcfg mode=0555
1357 file path=usr/sbin/link mode=0555
1358 file path=usr/sbin/locator mode=0555
1359 file path=usr/sbin/lofiadm mode=0555
1360 file path=usr/sbin/logadm mode=0555
1361 file path=usr/sbin/makedbm mode=0555
1362 file path=usr/sbin/mkdevalloc mode=0555
1363 file path=usr/sbin/mkfile mode=0555
1364 file path=usr/sbin/mknod mode=0555
1365 file path=usr/sbin/mountall group=sys mode=0555
1366 file path=usr/sbin/msgid mode=0555
1367 file path=usr/sbin/mvdir mode=0555
1368 file path=usr/sbin/ndd mode=0555
1369 file path=usr/sbin/nlsadmin group=adm mode=0755
1370 file path=usr/sbin/nscd mode=0555
1371 file path=usr/sbin/nwamadm mode=0555
1372 file path=usr/sbin/nwamcfg mode=0555
1373 file path=usr/sbin/pmadm group=sys mode=0555
1374 file path=usr/sbin/praudit mode=0555
1375 $(i386_ONLY)file path=usr/sbin/prtdiag group=sys mode=2755
1376 file path=usr/sbin/prtvtoc group=sys mode=0555
1377 file path=usr/sbin/psradm group=sys mode=0555
1378 file path=usr/sbin/psrinfo group=sys mode=0555
1379 file path=usr/sbin/pwck mode=0555
1380 file path=usr/sbin/pwconv group=sys mode=0555
```

```
1381 file path=usr/sbin/raidctl mode=0555
1382 file path=usr/sbin/ramdiskadm mode=0555
1383 file path=usr/sbin/rctladm mode=0555
1384 file path=usr/sbin/root_archive group=sys mode=0555
1385 file path=usr/sbin/rpcbind mode=0555
1386 $(i386_ONLY)file path=usr/sbin/rtc mode=0555
1387 file path=usr/sbin/sacadm group=sys mode=4755
1388 file path=usr/sbin/setmnt mode=0555
1389 file path=usr/sbin/shareall mode=0555
1390 file path=usr/sbin/sharectl mode=0555
1391 file path=usr/sbin/sharemgr mode=0555
1392 file path=usr/sbin/shutdown group=sys mode=0755
1393 file path=usr/sbin/smbios mode=0555
1394 file path=usr/sbin/stmsboot mode=0555
1395 file path=usr/sbin/strace group=sys mode=0555
1396 file path=usr/sbin/strclean group=sys mode=0555
1397 file path=usr/sbin/strerr group=sys mode=0555
1398 file path=usr/sbin/sttydefs group=sys mode=0755
1399 file path=usr/sbin/svcadm mode=0555
1400 file path=usr/sbin/svccfg mode=0555
1401 file path=usr/sbin/syncinit mode=0555
1402 file path=usr/sbin/syncloop mode=0555
1403 file path=usr/sbin/syncstat mode=0555
1404 file path=usr/sbin/syseventadm group=sys mode=0555
1405 file path=usr/sbin/syslogd group=sys mode=0555
1406 file path=usr/sbin/tar mode=0555
1407 file path=usr/sbin/traceroute mode=4555
1408 file path=usr/sbin/trapstat mode=0555
1409 file path=usr/sbin/ttyadm group=sys mode=0755
1410 $(i386_ONLY)file path=usr/sbin/ucodeadm mode=0555
1411 file path=usr/sbin/umountall group=sys mode=0555
1412 file path=usr/sbin/unlink mode=0555
1413 file path=usr/sbin/unshareall mode=0555
1414 file path=usr/sbin/useradd group=sys mode=0555
1415 file path=usr/sbin/userdel group=sys mode=0555
1416 file path=usr/sbin/usermod group=sys mode=0555
1417 $(sparc_ONLY)file path=usr/sbin/virtinfo mode=0555
1418 file path=usr/sbin/volcopy mode=0555
1419 file path=usr/sbin/wall group=tty mode=2555
1420 file path=usr/sbin/zdump mode=0555
1421 file path=usr/sbin/zic mode=0555
1422 file path=usr/share/doc/ksh/COMPATIBILITY
1423 file path=usr/share/doc/ksh/DESIGN
1424 file path=usr/share/doc/ksh/OBSOLETE
1425 file path=usr/share/doc/ksh/README
1426 file path=usr/share/doc/ksh/RELEASE
1427 file path=usr/share/doc/ksh/TYPES
1428 file path=usr/share/doc/ksh/images/callouts/1.png
1429 file path=usr/share/doc/ksh/images/callouts/10.png
1430 file path=usr/share/doc/ksh/images/callouts/2.png
1431 file path=usr/share/doc/ksh/images/callouts/3.png
1432 file path=usr/share/doc/ksh/images/callouts/4.png
1433 file path=usr/share/doc/ksh/images/callouts/5.png
1434 file path=usr/share/doc/ksh/images/callouts/6.png
1435 file path=usr/share/doc/ksh/images/callouts/7.png
1436 file path=usr/share/doc/ksh/images/callouts/8.png
1437 file path=usr/share/doc/ksh/images/callouts/9.png
1438 file path=usr/share/doc/ksh/images/tag_bourne.png
1439 file path=usr/share/doc/ksh/images/tag_i18n.png
1440 file path=usr/share/doc/ksh/images/tag_ksh.png
1441 file path=usr/share/doc/ksh/images/tag_ksh88.png
1442 file path=usr/share/doc/ksh/images/tag_ksh93.png
1443 file path=usr/share/doc/ksh/images/tag_l10n.png
1444 file path=usr/share/doc/ksh/images/tag_perf.png
1445 file path=usr/share/doc/ksh/shell_styleguide.docbook
1446 file path=usr/share/doc/ksh/shell_styleguide.html
```

```
1447 file path=usr/share/lib/mailx/mailx.help
1448 file path=usr/share/lib/mailx/mailx.help.~
1449 file path=usr/share/lib/tabset/3101
1450 file path=usr/share/lib/tabset/beehive
1451 file path=usr/share/lib/tabset/hds
1452 file path=usr/share/lib/tabset/hds3
1453 file path=usr/share/lib/tabset/std
1454 file path=usr/share/lib/tabset/stdcrt
1455 file path=usr/share/lib/tabset/teleray
1456 file path=usr/share/lib/tabset/vt100
1457 file path=usr/share/lib/tabset/wyse-adds
1458 file path=usr/share/lib/tabset/xerox1720
1459 file path=usr/share/lib/termcap
1460 file path=usr/share/lib/unittab
1461 file path=usr/share/lib/xml/dtd/adt_record.dtd.1
1462 file path=usr/share/lib/xml/dtd/kmfpolicy.dtd
1463 file path=usr/share/lib/xml/dtd/service_bundle.dtd.1 group=sys
1464 file path=usr/share/lib/xml/style/adt_record.xsl.1
1465 file path=var/adm/aculog mode=0600 owner=uucp preserve=true
1466 file path=var/adm/spellhist mode=0666 preserve=true
1467 file path=var/adm/utmpx preserve=true
1468 file path=var/adm/wtmpx group=adm owner=adm preserve=true
1469 file path=var/log/authlog group=sys mode=0600 preserve=true
1470 file path=var/log/syslog group=sys preserve=true
1471 file path=var/sadm/system/admin/default_java group=sys mode=0444
1472 file path=var/saf/zsmon/log group=sys preserve=true
1473 file path=var/spool/cron/crontabs/adm group=sys mode=0600 preserve=true
1474 file path=var/spool/cron/crontabs/root group=sys mode=0600 preserve=true
1475 hardlink path=etc/rc2.d/S20sysetup target=../../etc/init.d/sysetup
1476 hardlink path=etc/rc2.d/S73cachefs.daemon \
1477     target=../../etc/init.d/cachefs.daemon
1478 hardlink path=etc/rc2.d/S89PRESERVE target=../../etc/init.d/PRESERVE
1479 $(sparc_ONLY)hardlink path=etc/svc/profile/platform_SUNW,Sun-Fire-V890.xml \
1480     target=./platform_SUNW,Sun-Fire-880.xml
1481 $(sparc_ONLY)hardlink \
1482     path=etc/svc/profile/platform_SUNW,UltraSPARC-IIe-NetraCT-40.xml \
1483     target=./platform_SUNW,UltraSPARC-IIi-Netract.xml
1484 $(sparc_ONLY)hardlink \
1485     path=etc/svc/profile/platform_SUNW,UltraSPARC-IIe-NetraCT-60.xml \
1486     target=./platform_SUNW,UltraSPARC-IIi-Netract.xml
1487 hardlink path=sbin/rc5 target=../sbin/rc0
1488 hardlink path=sbin/rc6 target=../sbin/rc0
1489 hardlink path=usr/bin/$(ARCH32)/encrypt target=decrypt
1490 hardlink path=usr/bin/$(ARCH32)/ksh target=ksh93
1491 hardlink path=usr/bin/$(ARCH32)/mac target=digest
1492 hardlink path=usr/bin/$(ARCH32)/rksh target=ksh93
1493 hardlink path=usr/bin/$(ARCH32)/rksh93 target=ksh93
1494 $(i386_ONLY)hardlink path=usr/bin/$(ARCH32)/w target=uptime
1495 hardlink path=usr/bin/$(ARCH64)/encrypt target=decrypt
1496 hardlink path=usr/bin/$(ARCH64)/ksh target=ksh93
1497 hardlink path=usr/bin/$(ARCH64)/mac target=digest
1498 hardlink path=usr/bin/$(ARCH64)/rksh target=ksh93
1499 hardlink path=usr/bin/$(ARCH64)/rksh93 target=ksh93
1500 hardlink path=usr/bin/$(ARCH64)/w target=uptime
1501 hardlink path=usr/bin/bg target=../../usr/bin/alias
1502 hardlink path=usr/bin/cd target=../../usr/bin/alias
1503 hardlink path=usr/bin/cksum target=../../usr/bin/alias
1504 hardlink path=usr/bin/cmp target=../../usr/bin/alias
1505 hardlink path=usr/bin/comm target=../../usr/bin/alias
1506 hardlink path=usr/bin/command target=../../usr/bin/alias
1507 hardlink path=usr/bin/cut target=../../usr/bin/alias
1508 hardlink path=usr/bin/decrypt target=../../usr/lib/isaexec
1509 hardlink path=usr/bin/digest target=../../usr/lib/isaexec
1510 hardlink path=usr/bin/dispgid target=../../usr/bin/ckgid
1511 hardlink path=usr/bin/dispuid target=../../usr/bin/ckuid
1512 hardlink path=usr/bin/edit target=../has/bin/edit
```

```
1513 hardlink path=usr/bin/encrypt target=../../usr/lib/isaexec
1514 hardlink path=usr/bin/fc target=../../usr/bin/alias
1515 hardlink path=usr/bin/fg target=../../usr/bin/alias
1516 hardlink path=usr/bin/getopts target=../../usr/bin/alias
1517 hardlink path=usr/bin/hash target=../../usr/bin/alias
1518 hardlink path=usr/bin/i386 target=../../usr/bin/i286
1519 hardlink path=usr/bin/i486 target=../../usr/bin/i286
1520 hardlink path=usr/bin/i860 target=../../usr/bin/i286
1521 hardlink path=usr/bin/i86pc target=../../usr/bin/i286
1522 hardlink path=usr/bin/iAPX286 target=../../usr/bin/i286
1523 hardlink path=usr/bin/jobs target=../../usr/bin/alias
1524 hardlink path=usr/bin/join target=../../usr/bin/alias
1525 hardlink path=usr/bin/kill target=../../usr/bin/alias
1526 hardlink path=usr/bin/ksh target=../../usr/lib/isaexec
1527 hardlink path=usr/bin/ksh93 target=../../usr/lib/isaexec
1528 hardlink path=usr/bin/ln target=../../usr/bin/cp
1529 hardlink path=usr/bin/logname target=../../usr/bin/alias
1530 hardlink path=usr/bin/m68k target=../../usr/bin/i286
1531 hardlink path=usr/bin/mac target=../../usr/lib/isaexec
1532 hardlink path=usr/bin/mc68000 target=../../usr/bin/i286
1533 hardlink path=usr/bin/mc68010 target=../../usr/bin/i286
1534 hardlink path=usr/bin/mc68020 target=../../usr/bin/i286
1535 hardlink path=usr/bin/mc68030 target=../../usr/bin/i286
1536 hardlink path=usr/bin/mc68040 target=../../usr/bin/i286
1537 hardlink path=usr/bin/mv target=../../usr/bin/cp
1538 hardlink path=usr/bin/newtask target=../../usr/lib/isaexec
1539 hardlink path=usr/bin/nohup target=../../usr/lib/isaexec
1540 hardlink path=usr/bin/page target=../../usr/bin/more
1541 hardlink path=usr/bin/paste target=../../usr/bin/alias
1542 hardlink path=usr/bin/pdp11 target=../../usr/bin/i286
1543 hardlink path=usr/bin/pfbash target=../../usr/bin/pfexec
1544 hardlink path=usr/bin/pfcsh target=../../usr/bin/pfexec
1545 hardlink path=usr/bin/pfksh target=../../usr/bin/pfexec
1546 hardlink path=usr/bin/pfksh93 target=../../usr/bin/pfexec
1547 hardlink path=usr/bin/pfrksh target=../../usr/bin/pfexec
1548 hardlink path=usr/bin/pfrksh93 target=../../usr/bin/pfexec
1549 hardlink path=usr/bin/pfsh target=../../usr/bin/pfexec
1550 hardlink path=usr/bin/pftcsh target=../../usr/bin/pfexec
1551 hardlink path=usr/bin/pfzsh target=../../usr/bin/pfexec
1552 hardlink path=usr/bin/pkill target=../../usr/bin/pgrep
1553 hardlink path=usr/bin/prctl target=../../usr/lib/isaexec
1554 hardlink path=usr/bin/print target=../../usr/bin/alias
1555 hardlink path=usr/bin/prstat target=../../usr/lib/isaexec
1556 hardlink path=usr/bin/ps target=../../usr/lib/isaexec
1557 hardlink path=usr/bin/read target=../../usr/bin/alias
1558 hardlink path=usr/bin/red target=../../usr/bin/ed
1559 hardlink path=usr/bin/rev target=../../usr/bin/alias
1560 hardlink path=usr/bin/rksh target=../../usr/lib/isaexec
1561 hardlink path=usr/bin/rksh93 target=../../usr/lib/isaexec
1562 hardlink path=usr/bin/savecore target=../../usr/lib/isaexec
1563 hardlink path=usr/bin/setuname target=../../usr/lib/isaexec
1564 hardlink path=usr/bin/sleep target=../../usr/bin/alias
1565 hardlink path=usr/bin/sparc target=../../usr/bin/i286
1566 hardlink path=usr/bin/sum target=../../usr/bin/alias
1567 hardlink path=usr/bin/sun target=../../usr/bin/i286
1568 hardlink path=usr/bin/sun2 target=../../usr/bin/i286
1569 hardlink path=usr/bin/sun3 target=../../usr/bin/i286
1570 hardlink path=usr/bin/sun3x target=../../usr/bin/i286
1571 hardlink path=usr/bin/sun4 target=../../usr/bin/i286
1572 hardlink path=usr/bin/sun4c target=../../usr/bin/i286
1573 hardlink path=usr/bin/sun4d target=../../usr/bin/i286
1574 hardlink path=usr/bin/sun4e target=../../usr/bin/i286
1575 hardlink path=usr/bin/sun4m target=../../usr/bin/i286
1576 hardlink path=usr/bin/tee target=../../usr/bin/alias
1577 hardlink path=usr/bin/test target=../../usr/bin/alias
1578 hardlink path=usr/bin/touch target=../../usr/bin/settime
```

```
1579 hardlink path=usr/bin/type target=../../usr/bin/alias
1580 hardlink path=usr/bin/u370 target=../../usr/bin/i286
1581 hardlink path=usr/bin/u3b target=../../usr/bin/i286
1582 hardlink path=usr/bin/u3b15 target=../../usr/bin/i286
1583 hardlink path=usr/bin/u3b2 target=../../usr/bin/i286
1584 hardlink path=usr/bin/u3b5 target=../../usr/bin/i286
1585 hardlink path=usr/bin/ulimit target=../../usr/bin/alias
1586 hardlink path=usr/bin/umask target=../../usr/bin/alias
1587 hardlink path=usr/bin/unalias target=../../usr/bin/alias
1588 hardlink path=usr/bin/uniq target=../../usr/bin/alias
1589 hardlink path=usr/bin/uptime target=../../usr/lib/isaexec
1590 hardlink path=usr/bin/vax target=../../usr/bin/i286
1591 hardlink path=usr/bin/vedit target=../has/bin/edit
1592 hardlink path=usr/bin/w target=../../usr/lib/isaexec
1593 hardlink path=usr/bin/wait target=../../usr/bin/alias
1594 hardlink path=usr/bin/wc target=../../usr/bin/alias
1595 hardlink path=usr/has/bin/ex target=edit
1596 hardlink path=usr/has/bin/pfsh target=../../bin/pfexec
1597 hardlink path=usr/has/bin/vedit target=edit
1598 hardlink path=usr/has/bin/vi target=edit
1599 hardlink path=usr/has/bin/view target=edit
1600 hardlink path=usr/lib/fs/hsfs/fstyp target=../../../sbin/fstyp
1601 hardlink path=usr/lib/fs/ufs/dcopy target=../../../../usr/lib/fs/ufs/clri
1602 hardlink path=usr/lib/fs/ufs/fstyp target=../../../sbin/fstyp
1603 hardlink path=usr/lib/fs/ufs/quotaon \
1604       target=../../../../usr/lib/fs/ufs/quotaoff
1605 hardlink path=usr/lib/inet/in.iked target=../../../usr/lib/isaexec
1606 hardlink path=usr/sadm/bin/dispgid target=../../../usr/bin/ckgid
1607 hardlink path=usr/sadm/bin/dispuid target=../../../usr/bin/ckuid
1608 hardlink path=usr/sadm/bin/errange target=../../../usr/bin/ckrange
1609 hardlink path=usr/sadm/bin/errdate target=../../../usr/bin/ckdate
1610 hardlink path=usr/sadm/bin/errgid target=../../../usr/bin/ckgid
1611 hardlink path=usr/sadm/bin/errint target=../../../usr/bin/ckint
1612 hardlink path=usr/sadm/bin/erritem target=../../../usr/bin/ckitem
1613 hardlink path=usr/sadm/bin/errpath target=../../../usr/bin/ckpath
1614 hardlink path=usr/sadm/bin/errstr target=../../../usr/bin/ckstr
1615 hardlink path=usr/sadm/bin/errtime target=../../../usr/bin/cktime
1616 hardlink path=usr/sadm/bin/erruid target=../../../usr/bin/ckuid
1617 hardlink path=usr/sadm/bin/erryorn target=../../../usr/bin/ckyorn
1618 hardlink path=usr/sadm/bin/helpdate target=../../../usr/bin/ckdate
1619 hardlink path=usr/sadm/bin/helpgid target=../../../usr/bin/ckgid
1620 hardlink path=usr/sadm/bin/helpint target=../../../usr/bin/ckint
1621 hardlink path=usr/sadm/bin/helpitem target=../../../usr/bin/ckitem
1622 hardlink path=usr/sadm/bin/helppath target=../../../usr/bin/ckpath
1623 hardlink path=usr/sadm/bin/helprange target=../../../usr/bin/ckrange
1624 hardlink path=usr/sadm/bin/helpstr target=../../../usr/bin/ckstr
1625 hardlink path=usr/sadm/bin/helptime target=../../../usr/bin/cktime
1626 hardlink path=usr/sadm/bin/helppuid target=../../../usr/bin/ckuid
1627 hardlink path=usr/sadm/bin/helpyorn target=../../../usr/bin/ckyorn
1628 hardlink path=usr/sadm/bin/valdate target=../../../usr/bin/ckdate
1629 hardlink path=usr/sadm/bin/valgid target=../../../usr/bin/ckgid
1630 hardlink path=usr/sadm/bin/valint target=../../../usr/bin/ckint
1631 hardlink path=usr/sadm/bin/valpath target=../../../usr/bin/ckpath
1632 hardlink path=usr/sadm/bin/valrange target=../../../usr/bin/ckrange
1633 hardlink path=usr/sadm/bin/valstr target=../../../usr/bin/ckstr
1634 hardlink path=usr/sadm/bin/valtime target=../../../usr/bin/cktime
1635 hardlink path=usr/sadm/bin/valuid target=../../../usr/bin/ckuid
1636 hardlink path=usr/sadm/bin/valyorn target=../../../usr/bin/ckyorn
1637 hardlink path=usr/sbin/add_drv target=../../usr/lib/isaexec
1638 hardlink path=usr/sbin/audlinks target=./devfsadm
1639 hardlink path=usr/sbin/consadmd target=../../usr/sbin/consadm
1640 hardlink path=usr/sbin/deallocate target=../../usr/sbin/allocate
1641 hardlink path=usr/sbin/devlinks target=./devfsadm
1642 hardlink path=usr/sbin/dfshares target=../../usr/sbin/dfmounts
1643 hardlink path=usr/sbin/disks target=./devfsadm
1644 hardlink path=usr/sbin/drvconfig target=./devfsadm
```

```
1645 hardlink path=usr/sbin/list_devices target=../../usr/sbin/allocate
1646 hardlink path=usr/sbin/mkdevmaps target=../../usr/sbin/mkdevalloc
1647 hardlink path=usr/sbin/modinfo target=../../usr/lib/isaexec
1648 hardlink path=usr/sbin/modload target=../../usr/lib/isaexec
1649 hardlink path=usr/sbin/modunload target=../../usr/lib/isaexec
1650 hardlink path=usr/sbin/pbind target=../../usr/lib/isaexec
1651 hardlink path=usr/sbin/ports target=./devfsadm
1652 hardlink path=usr/sbin/poweroff target=./halt
1653 hardlink path=usr/sbin/prtconf target=../../usr/lib/isaexec
1654 $(sparc_ONLY)hardlink path=usr/sbin/prtdiag target=../../usr/lib/platexec
1655 hardlink path=usr/sbin/psrset target=../../usr/lib/isaexec
1656 hardlink path=usr/sbin/reboot target=./halt
1657 hardlink path=usr/sbin/rem_drv target=../../usr/lib/isaexec
1658 hardlink path=usr/sbin/roleadd target=../../usr/sbin/useradd
1659 hardlink path=usr/sbin/roledel target=../../usr/sbin/userdel
1660 hardlink path=usr/sbin/rolemod target=../../usr/sbin/usermod
1661 hardlink path=usr/sbin/share target=../../usr/sbin/sharemgr
1662 hardlink path=usr/sbin/swap target=../../usr/lib/isaexec
1663 hardlink path=usr/sbin/sysdef target=../../usr/lib/isaexec
1664 hardlink path=usr/sbin/tapes target=./devfsadm
1665 hardlink path=usr/sbin/unshare target=../../usr/sbin/sharemgr
1666 hardlink path=usr/sbin/update_drv target=../../usr/lib/isaexec
1667 hardlink path=usr/sbin/whodo target=../../usr/lib/isaexec
1668 legacy pkg=SUNWcsr \
1669     desc="core software for a specific instruction-set architecture" \
1670     name="Core Solaris, (Root)"
1671 legacy pkg=SUNWcsu \
1672     desc="core software for a specific instruction-set architecture" \
1673     name="Core Solaris, (Usr)"
1674 legacy pkg=SUNWftpr desc="FTP Server Configuration Files" \
1675     name="FTP Server, (Root)"
1676 license cr_Sun license=cr_Sun
1677 license lic_CDDL license=lic_CDDL
1678 license usr/src/cmd/cmd-inet/sbin/ifparse/THIRDPARTYLICENSE \
1679     license=usr/src/cmd/cmd-inet/sbin/ifparse/THIRDPARTYLICENSE
1680 license usr/src/cmd/cmd-inet/usr.lib/in.mpathd/THIRDPARTYLICENSE \
1681     license=usr/src/cmd/cmd-inet/usr.lib/in.mpathd/THIRDPARTYLICENSE
1682 license usr/src/cmd/cmd-inet/usr.sbin/THIRDPARTYLICENSE.arp \
1683     license=usr/src/cmd/cmd-inet/usr.sbin/THIRDPARTYLICENSE.arp
1684 license usr/src/cmd/cmd-inet/usr.sbin/THIRDPARTYLICENSE.route \
1685     license=usr/src/cmd/cmd-inet/usr.sbin/THIRDPARTYLICENSE.route
1686 license usr/src/cmd/cmd-inet/usr.sbin/ifconfig/THIRDPARTYLICENSE \
1687     license=usr/src/cmd/cmd-inet/usr.sbin/ifconfig/THIRDPARTYLICENSE
1688 license usr/src/cmd/cmd-inet/usr.sbin/in.ftpd/LICENSE \
1689     license=usr/src/cmd/cmd-inet/usr.sbin/in.ftpd/LICENSE
1690 license usr/src/cmd/cmd-inet/usr.sbin/traceroute/THIRDPARTYLICENSE \
1691     license=usr/src/cmd/cmd-inet/usr.sbin/traceroute/THIRDPARTYLICENSE
1692 license usr/src/cmd/cron/THIRDPARTYLICENSE \
1693     license=usr/src/cmd/cron/THIRDPARTYLICENSE
1694 license usr/src/cmd/csh/THIRDPARTYLICENSE \
1695     license=usr/src/cmd/csh/THIRDPARTYLICENSE
1696 license usr/src/cmd/eeprom/THIRDPARTYLICENSE \
1697     license=usr/src/cmd/eeprom/THIRDPARTYLICENSE
1698 license usr/src/cmd/fs.d/ufs/THIRDPARTYLICENSE \
1699     license=usr/src/cmd/fs.d/ufs/THIRDPARTYLICENSE
1700 license usr/src/cmd/mt/THIRDPARTYLICENSE \
1701     license=usr/src/cmd/mt/THIRDPARTYLICENSE
1702 license usr/src/cmd/script/THIRDPARTYLICENSE \
1703     license=usr/src/cmd/script/THIRDPARTYLICENSE
1704 license usr/src/cmd/sed/THIRDPARTYLICENSE \
1705     license=usr/src/cmd/sed/THIRDPARTYLICENSE
1706 license usr/src/cmd/stat/vmstat/THIRDPARTYLICENSE \
1707     license=usr/src/cmd/stat/vmstat/THIRDPARTYLICENSE
1708 license usr/src/cmd/tail/THIRDPARTYLICENSE \
1709     license=usr/src/cmd/tail/THIRDPARTYLICENSE
1710 license usr/src/cmd/tip/THIRDPARTYLICENSE \
```

```
1711      license=usr/src/cmd/tip/THIRDPARTYLICENSE
1712 license usr/src/cmd/tr/THIRDPARTYLICENSE \
1713      license=usr/src/cmd/tr/THIRDPARTYLICENSE
1714 license usr/src/cmd/vi/THIRDPARTYLICENSE \
1715      license=usr/src/cmd/vi/THIRDPARTYLICENSE
1716 license usr/src/cmd/which/THIRDPARTYLICENSE \
1717      license=usr/src/cmd/which/THIRDPARTYLICENSE
1718 license usr/src/cmd/xstr/THIRDPARTYLICENSE \
1719      license=usr/src/cmd/xstr/THIRDPARTYLICENSE
1720 license usr/src/common/bzip2/LICENSE license=usr/src/common/bzip2/LICENSE
1721 link path=bin target=./usr/bin
1722 link path=etc/TIMEZONE target=./default/init
1723 link path=etc/autopush target=../sbin/autopush
1724 link path=etc/cfgadm target=../usr/sbin/cfgadm
1725 link path=etc/clri target=../usr/sbin/clri
1726 link path=etc/cron target=../usr/sbin/cron
1727 link path=etc/dcopy target=../usr/sbin/dcopy
1728 link path=etc/ff target=../usr/sbin/ff
1729 link path=etc/fmthard target=../usr/sbin/fmthard
1730 link path=etc/format target=../usr/sbin/format
1731 link path=etc/fsck target=../usr/sbin/fsck
1732 link path=etc/fsdb target=../usr/sbin/fsdb
1733 link path=etc/fstyp target=../usr/sbin/fstyp
1734 link path=etc/getty target=../usr/lib/saf/ttymon
1735 link path=etc/grpck target=../usr/sbin/grpck
1736 link path=etc/halt target=../usr/sbin/halt
1737 link path=etc/hosts target=./inet/hosts
1738 link path=etc/inet/ipnodes target=./hosts
1739 link path=etc/inetd.conf target=./inet/inetd.conf
1740 link path=etc/init target=../sbin/init
1741 link path=etc/install target=../usr/sbin/install
1742 link path=etc/killall target=../usr/sbin/killall
1743 link path=etc/labelit target=../usr/sbin/labelit
1744 link path=etc/lib/ld.so.1 target=../../lib/ld.so.1
1745 link path=etc/lib/libdl.so.1 target=../../lib/libdl.so.1
1746 link path=etc/lib/nss_files.so.1 target=../../lib/nss_files.so.1
1747 link path=etc/log target=../var/adm/log
1748 link path=etc/mkfs target=../usr/sbin/mkfs
1749 link path=etc/mknod target=../usr/sbin/mknod
1750 link path=etc/mount target=../sbin/mount
1751 link path=etc/mountall target=../sbin/mountall
1752 link path=etc/ncheck target=../usr/sbin/ncheck
1753 link path=etc/netmasks target=./inet/netmasks
1754 link path=etc/networks target=./inet/networks
1755 link path=etc/protocols target=./inet/protocols
1756 link path=etc/prtconf target=../usr/sbin/prtconf
1757 link path=etc/prtvtoc target=../usr/sbin/prtvtoc
1758 link path=etc/rc0 target=../sbin/rc0
1759 link path=etc/rc1 target=../sbin/rc1
1760 link path=etc/rc2 target=../sbin/rc2
1761 link path=etc/rc3 target=../sbin/rc3
1762 link path=etc/rc5 target=../sbin/rc5
1763 link path=etc/rc6 target=../sbin/rc6
1764 link path=etc/rcS target=../sbin/rcS
1765 link path=etc/reboot target=../usr/sbin/halt
1766 link path=etc/security/audit/localhost/files target=../../../../var/audit
1767 link path=etc/services target=./inet/services
1768 link path=etc/setmnt target=../usr/sbin/setmnt
1769 link path=etc/shutdown target=../usr/sbin/shutdown
1770 link path=etc/sulogin target=../sbin/sulogin
1771 link path=etc/swap target=../usr/sbin/swap
1772 link path=etc/swapadd target=../sbin/swapadd
1773 link path=etc/sysdef target=../usr/sbin/sysdef
1774 link path=etc/tar target=../usr/sbin/tar
1775 link path=etc/telinit target=../sbin/init
1776 link path=etc/uadmin target=../sbin/uadmin
```

```
1777 link path=etc/umount target=../sbin/umount
1778 link path=etc/umountall target=../sbin/umountall
1779 link path=etc/utmpx target=../var/adm/utmpx
1780 link path=etc/volcopy target=../usr/sbin/volcopy
1781 link path=etc/wall target=../usr/sbin/wall
1782 link path=etc/whodo target=../usr/sbin/whodo
1783 link path=etc/wtmpx target=../var/adm/wtmpx
1784 link path=sbin/in.mpathd target=../lib/inet/in.mpathd
1785 link path=sbin/jsh target=../usr/bin/ksh93
1786 link path=sbin/pfsh target=../usr/bin/pfexec
1787 link path=sbin/sh target=../usr/bin/$(ARCH32)/ksh93
1788 link path=sbin/su target=../usr/bin/su
1789 link path=usr/adm target=../var/adm
1790 link path=usr/bin/cachefspack target=../lib/fs/cachefs/cachefspack
1791 link path=usr/bin/cachefsstat target=../lib/fs/cachefs/cachefsstat
1792 link path=usr/bin/df target=../sbin/df
1793 link path=usr/bin/jsh target=ksh93
1794 link path=usr/bin/pwconv target=../sbin/pwconv
1795 link path=usr/bin/rmail target=./mail
1796 link path=usr/bin/sh target=$(ARCH32)/ksh93
1797 link path=usr/bin/strclean target=../sbin/strclean
1798 link path=usr/bin/strerr target=../sbin/strerr
1799 link path=usr/bin/sync target=../../sbin/sync
1800 link path=usr/bin/tar target=../sbin/tar
1801 link path=usr/bin/uname target=../../sbin/uname
1802 link path=usr/ccs/bin/m4 target=../../bin/m4
1803 link path=usr/has/bin/jsh target=sh
1804 link path=usr/has/lib/rsh target=../bin/sh
1805 link path=usr/lib/$(ARCH64)/ld.so.1 target=../../../lib/$(ARCH64)/ld.so.1
1806 link path=usr/lib/cron target=../../etc/cron.d
1807 link path=usr/lib/devfsadm/devfsadmd target=../../sbin/devfsadm
1808 link path=usr/lib/embedded_su target=../bin/su
1809 link path=usr/lib/fs/dev/mount target=../../../../etc/fs/dev/mount
1810 link path=usr/lib/fs/hsfs/mount target=../../../../etc/fs/hsfs/mount
1811 link path=usr/lib/fs/ufs/mount target=../../../../etc/fs/ufs/mount
1812 link path=usr/lib/inet/in.mpathd target=../../../lib/inet/in.mpathd
1813 link path=usr/lib/ld.so.1 target=../../lib/ld.so.1
1814 link path=usr/lib/locale/POSIX target=./C
1815 link path=usr/lib/rsh target=../bin/ksh93
1816 link path=usr/lib/secure/32 target=.
1817 link path=usr/lib/secure/64 target=$(ARCH64)
1818 link path=usr/lib/wusbd target=../../sbin/wusbadm
1819 link path=usr/mail target=../var/mail
1820 link path=usr/net/nls/listen target=../../lib/saf/listen
1821 link path=usr/net/nls/nlps_server target=../../lib/saf/nlps_server
1822 link path=usr/news target=../var/news
1823 link path=usr/preserve target=../var/preserve
1824 link path=usr/pub target=./share/lib/pub
1825 link path=usr/sbin/autopush target=../../sbin/autopush
1826 link path=usr/sbin/bootadm target=../../sbin/bootadm
1827 link path=usr/sbin/cachefslog target=../lib/fs/cachefs/cachefslog
1828 link path=usr/sbin/cachefswssize target=../lib/fs/cachefs/cachefswssize
1829 link path=usr/sbin/cfsadmin target=../lib/fs/cachefs/cfsadmin
1830 link path=usr/sbin/cryptoadm target=../../sbin/cryptoadm
1831 link path=usr/sbin/dcopy target=./clri
1832 link path=usr/sbin/devnm target=./df
1833 link path=usr/sbin/dladm target=../../sbin/dladm
1834 link path=usr/sbin/dlstat target=../../sbin/dlstat
1835 link path=usr/sbin/edquota target=../lib/fs/ufs/edquota
1836 link path=usr/sbin/fdisk target=../../sbin/fdisk
1837 link path=usr/sbin/fiocompress target=../../sbin/fiocompress
1838 link path=usr/sbin/flowadm target=../../sbin/flowadm
1839 link path=usr/sbin/flowstat target=../../sbin/flowstat
1840 link path=usr/sbin/fsdb target=./clri
1841 link path=usr/sbin/fsirand target=../lib/fs/ufs/fsirand
1842 link path=usr/sbin/fssnap target=./clri
```

```
1843 link path=usr/sbin/hostconfig target=../../sbin/hostconfig
1844 link path=usr/sbin/ifconfig target=../../sbin/ifconfig
1845 link path=usr/sbin/inetd target=../lib/inet/inetd
1846 link path=usr/sbin/init target=../../sbin/init
1847 $(i386_ONLY)link path=usr/sbin/installgrub target=../../sbin/installgrub
1848 link path=usr/sbin/ipadm target=../../sbin/ipadm
1849 link path=usr/sbin/ipmpstat target=../../sbin/ipmpstat
1850 link path=usr/sbin/labelit target=./clri
1851 link path=usr/sbin/lockfs target=../lib/fs/ufs/lockfs
1852 link path=usr/sbin/mkfs target=./clri
1853 link path=usr/sbin/mount target=../../sbin/mount
1854 link path=usr/sbin/ncheck target=./ff
1855 link path=usr/sbin/newfs target=../lib/fs/ufs/newfs
1856 link path=usr/sbin/quot target=../lib/fs/ufs/quot
1857 link path=usr/sbin/quota target=../lib/fs/ufs/quota
1858 link path=usr/sbin/quotacheck target=../lib/fs/ufs/quotacheck
1859 link path=usr/sbin/quotaoff target=../lib/fs/ufs/quotaoff
1860 link path=usr/sbin/quotaon target=../lib/fs/ufs/quotaon
1861 link path=usr/sbin/repquota target=../lib/fs/ufs/repquota
1862 link path=usr/sbin/route target=../../sbin/route
1863 link path=usr/sbin/routeadm target=../../sbin/routeadm
1864 link path=usr/sbin/sync target=../../sbin/sync
1865 link path=usr/sbin/tunefs target=../lib/fs/ufs/tunefs
1866 link path=usr/sbin/tzreload target=../../sbin/tzreload
1867 link path=usr/sbin/uadmin target=../../sbin/uadmin
1868 link path=usr/sbin/ufsdump target=../lib/fs/ufs/ufsdump
1869 link path=usr/sbin/ufsrestore target=../lib/fs/ufs/ufsrestore
1870 link path=usr/sbin/umount target=../../sbin/umount
1871 link path=usr/sbin/wusbadm target=../../sbin/wusbadm
1872 link path=usr/spool target=../var/spool
1873 link path=usr/src target=./share/src
1874 link path=usr/tmp target=../var/tmp
1875 link path=var/ld/32 target=.
1876 link path=var/ld/64 target=$(ARCH64)
1877 #
1878 # The bootadm binary needs the etc/release file.
1879 #
1880 depend fmri=release/name type=require
1881 #
1882 # Illumos-defaulted perl interpreter
1883 # intrd and others use the illumos-defaulted perl interpreter
1883 #
1884 depend fmri=runtime/perl-510 type=require
1885 #
1886 # The loadkeys binary needs the keytables.
1887 #
1888 depend fmri=system/data/keyboard/keytables type=require
1889 #
1890 # Depend on terminfo data.
1891 #
1892 depend fmri=system/data/terminfo type=require
1893 #
1894 # Depend on zoneinfo data.
1895 #
1896 depend fmri=system/data/zoneinfo type=require
```

```
    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.
    7 #
    8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
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   10 # See the License for the specific language governing permissions
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   13 # When distributing Covered Code, include this CDDL HEADER in each
   14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
   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 #

   22 #
   23 # Copyright (c) 1991, 2010, Oracle and/or its affiliates. All rights reserved.
   24 # Copyright (c) 2012 Nexenta Systems, Inc. All rights reserved.
   25 # Copyright (c) 2012 by Delphix. All rights reserved.
   26 # Copyright (c) 2013 by Saso Kiselkov. All rights reserved.
   27 #

   29 #
   30 # This Makefile defines all file modules for the directory uts/common
   31 # and its children. These are the source files which may be considered
   32 # common to all SunOS systems.

   34 i386_CORE_OBJS += \
   35             atomic.o        \
   36             avintr.o        \
   37             pic.o

   39 sparc_CORE_OBJS +=

   41 COMMON_CORE_OBJS +=             \
   42             beep.o             \
   43             bitset.o           \
   44             bp_map.o           \
   45             brand.o            \
   46             cpucaps.o          \
   47             cmt.o              \
   48             cmt_policy.o       \
   49             cpu.o              \
   50             cpu_event.o        \
   51             cpu_intr.o         \
   52             cpu_pm.o           \
   53             cpupart.o          \
   54             cap_util.o         \
   55             disp.o             \
   56             group.o            \
   57             kstat_fr.o         \
   58             iscsiboot_prop.o         \
   59             lgrp.o             \
   60             lgrp_topo.o        \
   61             mmapobj.o          \
```

```
   62             mutex.o            \
   63             page_lock.o        \
   64             page_retire.o      \
   65             panic.o            \
   66             param.o            \
   67             pg.o               \
   68             pghw.o             \
   69             putnext.o          \
   70             rctl_proc.o        \
   71             rwlock.o           \
   72             seg_kmem.o         \
   73             softint.o          \
   74             string.o           \
   75             strtol.o           \
   76             strtoul.o          \
   77             strtoll.o          \
   78             strtoull.o         \
   79             thread_intr.o      \
   80             vm_page.o          \
   81             vm_pagelist.o      \
   82             zlib_obj.o         \
   83             clock_tick.o

   85 CORE_OBJS +=    $(COMMON_CORE_OBJS) $($(MACH)_CORE_OBJS)

   87 ZLIB_OBJS =    zutil.o zmod.o zmod_subr.o \
   88             adler32.o crc32.o deflate.o inffast.o \
   89             inflate.o inftrees.o trees.o

   91 GENUNIX_OBJS += \
   92             access.o           \
   93             acl.o              \
   94             acl_common.o       \
   95             adjtime.o          \
   96             alarm.o            \
   97             aio_subr.o         \
   98             auditsys.o         \
   99             audit_core.o       \
  100             audit_zone.o       \
  101             audit_memory.o     \
  102             autoconf.o         \
  103             avl.o              \
  104             bdev_dsort.o       \
  105             bio.o              \
  106             bitmap.o           \
  107             blabel.o           \
  108             brandsys.o         \
  109             bz2blocksort.o     \
  110             bz2compress.o      \
  111             bz2decompress.o    \
  112             bz2randtable.o     \
  113             bz2bzlib.o         \
  114             bz2crctable.o      \
  115             bz2huffman.o       \
  116             callb.o            \
  117             callout.o          \
  118             chdir.o            \
  119             chmod.o            \
  120             chown.o            \
  121             cladm.o            \
  122             class.o            \
  123             clock.o            \
  124             clock_highres.o    \
  125             clock_realtime.o   \
  126             close.o            \
  127             compress.o         \
```

```
   128               condvar.o          \
   129               conf.o             \
   130               console.o          \
   131               contract.o         \
   132               copyops.o          \
   133               core.o             \
   134               corectl.o          \
   135               cred.o             \
   136               cs_stubs.o         \
   137               dacf.o             \
   138               dacf_clnt.o        \
   139               damap.o \
   140               cyclic.o           \
   141               ddi.o              \
   142               ddifm.o            \
   143               ddi_hp_impl.o      \
   144               ddi_hp_ndi.o       \
   145               ddi_intr.o         \
   146               ddi_intr_impl.o    \
   147               ddi_intr_irm.o     \
   148               ddi_nodeid.o       \
   149               ddi_timer.o        \
   150               devcfg.o           \
   151               devcache.o         \
   152               device.o           \
   153               devid.o            \
   154               devid_cache.o      \
   155               devid_scsi.o       \
   156               devid_smp.o        \
   157               devpolicy.o        \
   158               disp_lock.o        \
   159               dnlc.o             \
   160               driver.o           \
   161               dumpsubr.o         \
   162               driver_lyr.o       \
   163               dtrace_subr.o      \
   164               errorq.o           \
   165               etheraddr.o        \
   166               evchannels.o       \
   167               exacct.o           \
   168               exacct_core.o      \
   169               exec.o             \
   170               exit.o             \
   171               fbio.o             \
   172               fcntl.o            \
   173               fdbuffer.o         \
   174               fdsync.o           \
   175               fem.o              \
   176               ffs.o              \
   177               fio.o              \
   178               flock.o            \
   179               fm.o               \
   180               fork.o             \
   181               vpm.o              \
   182               fs_reparse.o       \
   183               fs_subr.o          \
   184               fsflush.o          \
   185               ftrace.o           \
   186               getcwd.o           \
   187               getdents.o         \
   188               getloadavg.o       \
   189               getpagesizes.o     \
   190               getpid.o           \
   191               gfs.o              \
   192               rusagesys.o        \
   193               gid.o              \
```

```
   194               groups.o           \
   195               grow.o             \
   196               hat_refmod.o       \
   197               id32.o             \
   198               id_space.o         \
   199               inet_ntop.o        \
   200               instance.o         \
   201               intrd.o            \
   202 #endif /* ! codereview */
   203               ioctl.o            \
   204               ip_cksum.o         \
   205               issetugid.o        \
   206               ippconf.o          \
   207               kcpc.o             \
   208               kdi.o              \
   209               kiconv.o           \
   210               klpd.o             \
   211               kmem.o             \
   212               ksyms_snapshot.o          \
   213               l_strplumb.o       \
   214               labelsys.o         \
   215               link.o             \
   216               list.o             \
   217               lockstat_subr.o    \
   218               log_sysevent.o     \
   219               logsubr.o          \
   220               lookup.o           \
   221               lseek.o            \
   222               ltos.o             \
   223               lwp.o              \
   224               lwp_create.o       \
   225               lwp_info.o         \
   226               lwp_self.o         \
   227               lwp_sobj.o         \
   228               lwp_timer.o        \
   229               lwpsys.o           \
   230               main.o             \
   231               mmapobjsys.o       \
   232               memcntl.o          \
   233               memstr.o           \
   234               lgrpsys.o          \
   235               mkdir.o            \
   236               mknod.o            \
   237               mount.o            \
   238               move.o             \
   239               msacct.o           \
   240               multidata.o        \
   241               nbmlock.o          \
   242               ndifm.o            \
   243               nice.o             \
   244               netstack.o         \
   245               ntptime.o          \
   246               nvpair.o           \
   247               nvpair_alloc_system.o  \
   248               nvpair_alloc_fixed.o   \
   249               fnvpair.o          \
   250               octet.o            \
   251               open.o             \
   252               p_online.o         \
   253               pathconf.o         \
   254               pathname.o         \
   255               pause.o            \
   256               serializer.o       \
   257               pci_intr_lib.o     \
   258               pci_cap.o          \
   259               pcifm.o            \
```

```
 260                 pgrp.o          \
 261                 pgrpsys.o       \
 262                 pid.o           \
 263                 pkp_hash.o      \
 264                 policy.o        \
 265                 poll.o          \
 266                 pool.o          \
 267                 pool_pset.o     \
 268                 port_subr.o     \
 269                 ppriv.o         \
 270                 printf.o        \
 271                 priocntl.o      \
 272                 priv.o          \
 273                 priv_const.o    \
 274                 proc.o          \
 275                 procset.o       \
 276                 processor_bind.o        \
 277                 processor_info.o        \
 278                 profil.o        \
 279                 project.o       \
 280                 qsort.o         \
 281                 rctl.o          \
 282                 rctlsys.o       \
 283                 readlink.o      \
 284                 refstr.o        \
 285                 rename.o        \
 286                 resolvepath.o   \
 287                 retire_store.o  \
 288                 process.o       \
 289                 rlimit.o        \
 290                 rmap.o          \
 291                 rw.o            \
 292                 rwstlock.o      \
 293                 sad_conf.o      \
 294                 sid.o           \
 295                 sidsys.o        \
 296                 sched.o         \
 297                 schedctl.o      \
 298                 sctp_crc32.o    \
 299                 seg_dev.o       \
 300                 seg_kp.o        \
 301                 seg_kpm.o       \
 302                 seg_map.o       \
 303                 seg_vn.o        \
 304                 seg_spt.o       \
 305                 semaphore.o     \
 306                 sendfile.o      \
 307                 session.o       \
 308                 share.o         \
 309                 shuttle.o       \
 310                 sig.o           \
 311                 sigaction.o     \
 312                 sigaltstack.o   \
 313                 signotify.o     \
 314                 sigpending.o    \
 315                 sigprocmask.o   \
 316                 sigqueue.o      \
 317                 sigsendset.o    \
 318                 sigsuspend.o    \
 319                 sigtimedwait.o  \
 320                 sleepq.o        \
 321                 sock_conf.o     \
 322                 space.o         \
 323                 sscanf.o        \
 324                 stat.o          \
 325                 statfs.o        \
```

```
 326                 statvfs.o       \
 327                 stol.o          \
 328                 str_conf.o      \
 329                 strcalls.o      \
 330                 stream.o        \
 331                 streamio.o      \
 332                 strext.o        \
 333                 strsubr.o       \
 334                 strsun.o        \
 335                 subr.o          \
 336                 sunddi.o        \
 337                 sunmdi.o        \
 338                 sunndi.o        \
 339                 sunpci.o        \
 340                 sunpm.o         \
 341                 sundlpi.o       \
 342                 suntpi.o        \
 343                 swap_subr.o     \
 344                 swap_vnops.o    \
 345                 symlink.o       \
 346                 sync.o          \
 347                 sysclass.o      \
 348                 sysconfig.o     \
 349                 sysent.o        \
 350                 sysfs.o         \
 351                 systeminfo.o    \
 352                 task.o          \
 353                 taskq.o         \
 354                 tasksys.o       \
 355                 time.o          \
 356                 timer.o         \
 357                 times.o         \
 358                 timers.o        \
 359                 thread.o        \
 360                 tlabel.o        \
 361                 tnf_res.o       \
 362                 turnstile.o     \
 363                 tty_common.o    \
 364                 u8_textprep.o   \
 365                 uadmin.o        \
 366                 uconv.o         \
 367                 ucredsys.o      \
 368                 uid.o           \
 369                 umask.o         \
 370                 umount.o        \
 371                 uname.o         \
 372                 unix_bb.o       \
 373                 unlink.o        \
 374                 urw.o           \
 375                 utime.o         \
 376                 utssys.o        \
 377                 uucopy.o        \
 378                 vfs.o           \
 379                 vfs_conf.o      \
 380                 vmem.o          \
 381                 vm_anon.o       \
 382                 vm_as.o         \
 383                 vm_meter.o      \
 384                 vm_pageout.o    \
 385                 vm_pvn.o        \
 386                 vm_rm.o         \
 387                 vm_seg.o        \
 388                 vm_subr.o       \
 389                 vm_swap.o       \
 390                 vm_usage.o      \
 391                 vnode.o         \
```

```
 392                    vuid_queue.o     \
 393                    vuid_store.o     \
 394                    waitq.o          \
 395                    watchpoint.o     \
 396                    yield.o          \
 397                    scsi_confdata.o \
 398                    xattr.o          \
 399                    xattr_common.o  \
 400                    xdr_mblk.o       \
 401                    xdr_mem.o        \
 402                    xdr.o            \
 403                    xdr_array.o      \
 404                    xdr_refer.o      \
 405                    xhat.o           \
 406                    zone.o

 408 #
 409 #       Stubs for the stand-alone linker/loader
 410 #
 411 sparc_GENSTUBS_OBJS =    \
 412         kobj_stubs.o

 414 i386_GENSTUBS_OBJS =

 416 COMMON_GENSTUBS_OBJS =

 418 GENSTUBS_OBJS += $(COMMON_GENSTUBS_OBJS) $($(MACH)_GENSTUBS_OBJS)

 420 #
 421 #       DTrace and DTrace Providers
 422 #
 423 DTRACE_OBJS += dtrace.o dtrace_isa.o dtrace_asm.o

 425 SDT_OBJS += sdt_subr.o

 427 PROFILE_OBJS += profile.o

 429 SYSTRACE_OBJS += systrace.o

 431 LOCKSTAT_OBJS += lockstat.o

 433 FASTTRAP_OBJS += fasttrap.o fasttrap_isa.o

 435 DCPC_OBJS += dcpc.o

 437 #
 438 #       Driver (pseudo-driver) Modules
 439 #
 440 IPP_OBJS +=     ippctl.o

 442 AUDIO_OBJS += audio_client.o audio_ddi.o audio_engine.o \
 443              audio_fltdata.o audio_format.o audio_ctrl.o \
 444              audio_grc3.o audio_output.o audio_input.o \
 445              audio_oss.o audio_sun.o

 447 AUDIOEMU10K_OBJS += audioemu10k.o

 449 AUDIOENS_OBJS += audioens.o

 451 AUDIOVIA823X_OBJS += audiovia823x.o

 453 AUDIOVIA97_OBJS += audiovia97.o

 455 AUDIO1575_OBJS += audio1575.o

 457 AUDIO810_OBJS += audio810.o
```

```
 459 AUDIOCMI_OBJS += audiocmi.o

 461 AUDIOCMIHD_OBJS += audiocmihd.o

 463 AUDIOHD_OBJS += audiohd.o

 465 AUDIOIXP_OBJS += audioixp.o

 467 AUDIOLS_OBJS += audiols.o

 469 AUDIOP16X_OBJS += audiop16x.o

 471 AUDIOPCI_OBJS += audiopci.o

 473 AUDIOSOLO_OBJS += audiosolo.o

 475 AUDIOTS_OBJS += audiots.o

 477 AC97_OBJS += ac97.o ac97_ad.o ac97_alc.o ac97_cmi.o

 479 BLKDEV_OBJS += blkdev.o

 481 CARDBUS_OBJS += cardbus.o cardbus_hp.o cardbus_cfg.o

 483 CONSKBD_OBJS += conskbd.o

 485 CONSMS_OBJS +=  consms.o

 487 OLDPTY_OBJS += tty_ptyconf.o

 489 PTC_OBJS +=     tty_pty.o

 491 PTSL_OBJS +=    tty_pts.o

 493 PTM_OBJS +=     ptm.o

 495 MII_OBJS +=     mii.o mii_cicada.o mii_natsemi.o mii_intel.o mii_qualsemi.o \
 496                mii_marvell.o mii_realtek.o mii_other.o

 498 PTS_OBJS +=     pts.o

 500 PTY_OBJS +=     ptms_conf.o

 502 SAD_OBJS +=     sad.o

 504 MD4_OBJS +=     md4.o md4_mod.o

 506 MD5_OBJS +=     md5.o md5_mod.o

 508 SHA1_OBJS +=    sha1.o sha1_mod.o

 510 SHA2_OBJS +=    sha2.o sha2_mod.o

 512 IPGPC_OBJS +=   classifierddi.o classifier.o filters.o trie.o table.o \
 513                ba_table.o

 515 DSCPMK_OBJS +=  dscpmk.o dscpmkddi.o

 517 DLCOSMK_OBJS += dlcosmk.o dlcosmkddi.o

 519 FLOWACCT_OBJS +=        flowacctddi.o flowacct.o

 521 TOKENMT_OBJS += tokenmt.o tokenmtddi.o

 523 TSWTCL_OBJS +=  tswtcl.o tswtclddi.o
```

```
525 ARP_OBJS +=       arpddi.o

527 ICMP_OBJS +=      icmpddi.o

529 ICMP6_OBJS +=     icmp6ddi.o

531 RTS_OBJS +=       rtsddi.o

533 IP_ICMP_OBJS =    icmp.o icmp_opt_data.o
534 IP_RTS_OBJS =     rts.o rts_opt_data.o
535 IP_TCP_OBJS =     tcp.o tcp_fusion.o tcp_opt_data.o tcp_sack.o tcp_stats.o \
536                   tcp_misc.o tcp_timers.o tcp_time_wait.o tcp_tpi.o tcp_output.o \
537                   tcp_input.o tcp_socket.o tcp_bind.o tcp_cluster.o tcp_tunables.o
538 IP_UDP_OBJS =     udp.o udp_opt_data.o udp_tunables.o udp_stats.o
539 IP_SCTP_OBJS =    sctp.o sctp_opt_data.o sctp_output.o \
540                   sctp_init.o sctp_input.o sctp_cookie.o \
541                   sctp_conn.o sctp_error.o sctp_snmp.o \
542                   sctp_tunables.o sctp_shutdown.o sctp_common.o \
543                   sctp_timer.o sctp_heartbeat.o sctp_hash.o \
544                   sctp_bind.o sctp_notify.o sctp_asconf.o \
545                   sctp_addr.o tn_ipopt.o tnet.o ip_netinfo.o \
546                   sctp_misc.o
547 IP_ILB_OBJS =     ilb.o ilb_nat.o ilb_conn.o ilb_alg_hash.o ilb_alg_rr.o

549 IP_OBJS +=        igmp.o ipmp.o ip.o ip6.o ip6_asp.o ip6_if.o ip6_ire.o \
550                   ip6_rts.o ip_if.o ip_ire.o ip_listutils.o ip_mroute.o \
551                   ip_multi.o ip2mac.o ip_ndp.o ip_rts.o ip_srcid.o \
552                   ipddi.o ipdrop.o mi.o nd.o tunables.o optcom.o snmpcom.o \
553                   ipsec_loader.o spd.o ipclassifier.o inet_common.o ip_squeue.o \
554                   squeue.o ip_sadb.o ip_ftable.o proto_set.o radix.o ip_dummy.o \
555                   ip_helper_stream.o ip_tunables.o \
556                   ip_output.o ip_input.o ip6_input.o ip6_output.o ip_arp.o \
557                   conn_opt.o ip_attr.o ip_dce.o \
558                   $(IP_ICMP_OBJS) \
559                   $(IP_RTS_OBJS) \
560                   $(IP_TCP_OBJS) \
561                   $(IP_UDP_OBJS) \
562                   $(IP_SCTP_OBJS) \
563                   $(IP_ILB_OBJS)

565 IP6_OBJS +=       ip6ddi.o

567 HOOK_OBJS +=      hook.o

569 NETI_OBJS +=      neti_impl.o neti_mod.o neti_stack.o

571 KEYSOCK_OBJS += keysockddi.o keysock.o keysock_opt_data.o

573 IPNET_OBJS +=   ipnet.o ipnet_bpf.o

575 SPDSOCK_OBJS += spdsockddi.o spdsock.o spdsock_opt_data.o

577 IPSECESP_OBJS += ipsecespddi.o ipsecesp.o

579 IPSECAH_OBJS += ipsecahddi.o ipsecah.o sadb.o

581 SPPP_OBJS +=      sppp.o sppp_dlpi.o sppp_mod.o s_common.o

583 SPPPTUN_OBJS += sppptun.o sppptun_mod.o

585 SPPPASYN_OBJS += spppasyn.o spppasyn_mod.o

587 SPPPCOMP_OBJS += spppcomp.o spppcomp_mod.o deflate.o bsd-comp.o vjcompress.o \
588                   zlib.o
```

```
590 TCP_OBJS +=       tcpddi.o

592 TCP6_OBJS +=      tcp6ddi.o

594 NCA_OBJS +=       ncaddi.o

596 SDP_SOCK_MOD_OBJS += sockmod_sdp.o socksdp.o socksdpsubr.o

598 SCTP_SOCK_MOD_OBJS += sockmod_sctp.o socksctp.o socksctpsubr.o

600 PFP_SOCK_MOD_OBJS += sockmod_pfp.o

602 RDS_SOCK_MOD_OBJS += sockmod_rds.o

604 RDS_OBJS +=       rdsddi.o rdssubr.o rds_opt.o rds_ioctl.o

606 RDSIB_OBJS +=   rdsib.o rdsib_ib.o rdsib_cm.o rdsib_ep.o rdsib_buf.o \
607                   rdsib_debug.o rdsib_sc.o

609 RDSV3_OBJS +=   af_rds.o rdsv3_ddi.o bind.o loop.o threads.o connection.o \
610                   transport.o cong.o sysctl.o message.o rds_recv.o send.o \
611                   stats.o info.o page.o rdma_transport.o ib_ring.o ib_rdma.o \
612                   ib_recv.o ib.o ib_send.o ib_sysctl.o ib_stats.o ib_cm.o \
613                   rdsv3_sc.o rdsv3_debug.o rdsv3_impl.o rdma.o rdsv3_af_thr.o

615 ISER_OBJS +=    iser.o iser_cm.o iser_cq.o iser_ib.o iser_idm.o \
616                   iser_resource.o iser_xfer.o

618 UDP_OBJS +=       udpddi.o

620 UDP6_OBJS +=      udp6ddi.o

622 SY_OBJS +=        gentty.o

624 TCO_OBJS +=       ticots.o

626 TCOO_OBJS +=      ticotsord.o

628 TCL_OBJS +=       ticlts.o

630 TL_OBJS +=        tl.o

632 DUMP_OBJS +=      dump.o

634 BPF_OBJS +=       bpf.o bpf_filter.o bpf_mod.o bpf_dlt.o bpf_mac.o

636 CLONE_OBJS +=   clone.o

638 CN_OBJS +=        cons.o

640 DLD_OBJS +=       dld_drv.o dld_proto.o dld_str.o dld_flow.o

642 DLS_OBJS +=       dls.o dls_link.o dls_mod.o dls_stat.o dls_mgmt.o

644 GLD_OBJS +=       gld.o gldutil.o

646 MAC_OBJS +=       mac.o  mac_bcast.o mac_client.o mac_datapath_setup.o mac_flow.o
647                   mac_hio.o mac_mod.o mac_ndd.o mac_provider.o mac_sched.o \
648                   mac_protect.o mac_soft_ring.o mac_stat.o mac_util.o

650 MAC_6TO4_OBJS +=        mac_6to4.o

652 MAC_ETHER_OBJS +=       mac_ether.o

654 MAC_IPV4_OBJS +=        mac_ipv4.o
```

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656 MAC_IPV6_OBJS +=        mac_ipv6.o

658 MAC_WIFI_OBJS +=        mac_wifi.o

660 MAC_IB_OBJS +=          mac_ib.o

662 IPTUN_OBJS +=   iptun_dev.o iptun_ctl.o iptun.o

664 AGGR_OBJS +=    aggr_dev.o aggr_ctl.o aggr_grp.o aggr_port.o \
665                 aggr_send.o aggr_recv.o aggr_lacp.o

667 SOFTMAC_OBJS += softmac_main.o softmac_ctl.o softmac_capab.o \
668                 softmac_dev.o softmac_stat.o softmac_pkt.o softmac_fp.o

670 NET80211_OBJS += net80211.o net80211_proto.o net80211_input.o \
671                 net80211_output.o net80211_node.o net80211_crypto.o \
672                 net80211_crypto_none.o net80211_crypto_wep.o net80211_ioctl.o \
673                 net80211_crypto_tkip.o net80211_crypto_ccmp.o  \
674                 net80211_ht.o

676 VNIC_OBJS +=    vnic_ctl.o vnic_dev.o

678 SIMNET_OBJS +=  simnet.o

680 IB_OBJS +=      ibnex.o ibnex_ioctl.o ibnex_hca.o

682 IBCM_OBJS +=    ibcm_impl.o ibcm_sm.o ibcm_ti.o ibcm_utils.o ibcm_path.o \
683                 ibcm_arp.o ibcm_arp_link.o

685 IBDM_OBJS +=    ibdm.o

687 IBDMA_OBJS +=   ibdma.o

689 IBMF_OBJS +=    ibmf.o ibmf_impl.o ibmf_dr.o ibmf_wqe.o ibmf_ud_dest.o ibmf_mod.
690                 ibmf_send.o ibmf_recv.o ibmf_handlers.o ibmf_trans.o \
691                 ibmf_timers.o ibmf_msg.o ibmf_utils.o ibmf_rmpp.o \
692                 ibmf_saa.o ibmf_saa_impl.o ibmf_saa_utils.o ibmf_saa_events.o

694 IBTL_OBJS +=    ibtl_impl.o ibtl_util.o ibtl_mem.o ibtl_handlers.o ibtl_qp.o \
695                 ibtl_cq.o ibtl_wr.o ibtl_hca.o ibtl_chan.o ibtl_cm.o \
696                 ibtl_mcg.o ibtl_ibnex.o ibtl_srq.o ibtl_part.o

698 TAVOR_OBJS +=   tavor.o tavor_agents.o tavor_cfg.o tavor_ci.o tavor_cmd.o \
699                 tavor_cq.o tavor_event.o tavor_ioctl.o tavor_misc.o \
700                 tavor_mr.o tavor_qp.o tavor_qpmod.o tavor_rsrc.o \
701                 tavor_srq.o tavor_stats.o tavor_umap.o tavor_wr.o

703 HERMON_OBJS +=  hermon.o hermon_agents.o hermon_cfg.o hermon_ci.o hermon_cmd.o \
704                 hermon_cq.o hermon_event.o hermon_ioctl.o hermon_misc.o \
705                 hermon_mr.o hermon_qp.o hermon_qpmod.o hermon_rsrc.o \
706                 hermon_srq.o hermon_stats.o hermon_umap.o hermon_wr.o \
707                 hermon_fcoib.o hermon_fm.o

709 DAPLT_OBJS +=   daplt.o

711 SOL_OFS_OBJS += sol_cma.o sol_ib_cma.o sol_uobj.o \
712                 sol_ofs_debug_util.o sol_ofs_gen_util.o \
713                 sol_kverbs.o

715 SOL_UCMA_OBJS +=        sol_ucma.o

717 SOL_UVERBS_OBJS +=      sol_uverbs.o sol_uverbs_comp.o sol_uverbs_event.o \
718                 sol_uverbs_hca.o sol_uverbs_qp.o

720 SOL_UMAD_OBJS += sol_umad.o
```

```
722 KSTAT_OBJS +=   kstat.o

724 KSYMS_OBJS +=   ksyms.o

726 INSTANCE_OBJS += inst_sync.o

728 IWSCN_OBJS +=   iwscons.o

730 LOFI_OBJS +=    lofi.o LzmaDec.o

732 FSSNAP_OBJS +=  fssnap.o

734 FSSNAPIF_OBJS += fssnap_if.o

736 MM_OBJS +=      mem.o

738 PHYSMEM_OBJS += physmem.o

740 OPTIONS_OBJS += options.o

742 WINLOCK_OBJS += winlockio.o

744 PM_OBJS +=      pm.o
745 SRN_OBJS +=     srn.o

747 PSEUDO_OBJS +=  pseudonex.o

749 RAMDISK_OBJS += ramdisk.o

751 LLC1_OBJS += llc1.o

753 USBKBM_OBJS += usbkbm.o

755 USBWCM_OBJS += usbwcm.o

757 BOFI_OBJS += bofi.o

759 HID_OBJS += hid.o

761 HWA_RC_OBJS += hwarc.o

763 USBSKEL_OBJS += usbskel.o

765 USBVC_OBJS += usbvc.o usbvc_v4l2.o

767 HIDPARSER_OBJS += hidparser.o

769 USB_AC_OBJS += usb_ac.o

771 USB_AS_OBJS += usb_as.o

773 USB_AH_OBJS += usb_ah.o

775 USBMS_OBJS += usbms.o

777 USBPRN_OBJS += usbprn.o

779 UGEN_OBJS += ugen.o

781 USBSER_OBJS += usbser.o usbser_rseq.o

783 USBSACM_OBJS += usbsacm.o

785 USBSER_KEYSPAN_OBJS += usbser_keyspan.o keyspan_dsd.o keyspan_pipe.o

787 USBS49_FW_OBJS += keyspan_49fw.o
```

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 789 USBSPRL_OBJS += usbser_pl2303.o pl2303_dsd.o

 791 WUSB_CA_OBJS += wusb_ca.o

 793 USBFTDI_OBJS += usbser_uftdi.o uftdi_dsd.o

 795 USBECM_OBJS += usbecm.o

 797 WC_OBJS += wscons.o vcons.o

 799 VCONS_CONF_OBJS += vcons_conf.o

 801 SCSI_OBJS +=    scsi_capabilities.o scsi_confsubr.o scsi_control.o \
 802                 scsi_data.o scsi_fm.o scsi_hba.o scsi_reset_notify.o \
 803                 scsi_resource.o scsi_subr.o scsi_transport.o scsi_watch.o \
 804                 smp_transport.o

 806 SCSI_VHCI_OBJS +=              scsi_vhci.o mpapi_impl.o scsi_vhci_tpgs.o

 808 SCSI_VHCI_F_SYM_OBJS +=        sym.o

 810 SCSI_VHCI_F_TPGS_OBJS +=       tpgs.o

 812 SCSI_VHCI_F_ASYM_SUN_OBJS +=   asym_sun.o

 814 SCSI_VHCI_F_SYM_HDS_OBJS +=    sym_hds.o

 816 SCSI_VHCI_F_TAPE_OBJS +=       tape.o

 818 SCSI_VHCI_F_TPGS_TAPE_OBJS +=  tpgs_tape.o

 820 SGEN_OBJS +=    sgen.o

 822 SMP_OBJS +=     smp.o

 824 SATA_OBJS +=    sata.o

 826 USBA_OBJS +=    hcdi.o  usba.o  usbai.o hubdi.o parser.o genconsole.o \
 827                 usba_pipe_mgmt.o usbai_req.o usbai_util.o usbai_register.o \
 828                 usba_devdb.o usba10_calls.o usba_ugen.o whcdi.o wa.o
 829 USBA_WITHOUT_WUSB_OBJS +=      hcdi.o  usba.o  usbai.o hubdi.o parser.o gencons
 830                 usba_pipe_mgmt.o usbai_req.o usbai_util.o usbai_register.o \
 831                 usba_devdb.o usba10_calls.o usba_ugen.o

 833 USBA10_OBJS += usba10.o

 835 RSM_OBJS +=     rsm.o   rsmka_pathmanager.o     rsmka_util.o

 837 RSMOPS_OBJS += rsmops.o

 839 S1394_OBJS +=   t1394.o t1394_errmsg.o s1394.o s1394_addr.o s1394_asynch.o \
 840                 s1394_bus_reset.o s1394_cmp.o s1394_csr.o s1394_dev_disc.o \
 841                 s1394_fa.o s1394_fcp.o \
 842                 s1394_hotplug.o s1394_isoch.o s1394_misc.o h1394.o nx1394.o

 844 HCI1394_OBJS += hci1394.o hci1394_async.o hci1394_attach.o hci1394_buf.o \
 845                 hci1394_csr.o hci1394_detach.o hci1394_extern.o \
 846                 hci1394_ioctl.o hci1394_isoch.o hci1394_isr.o \
 847                 hci1394_ixl_comp.o hci1394_ixl_isr.o hci1394_ixl_misc.o \
 848                 hci1394_ixl_update.o hci1394_misc.o hci1394_ohci.o \
 849                 hci1394_q.o hci1394_s1394if.o hci1394_tlabel.o \
 850                 hci1394_tlist.o hci1394_vendor.o

 852 AV1394_OBJS += av1394.o av1394_as.o av1394_async.o av1394_cfgrom.o \
 853                 av1394_cmp.o av1394_fcp.o av1394_isoch.o av1394_isoch_chan.o \
```

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 854                 av1394_isoch_recv.o av1394_isoch_xmit.o av1394_list.o \
 855                 av1394_queue.o

 857 DCAM1394_OBJS += dcam.o dcam_frame.o dcam_param.o dcam_reg.o \
 858                 dcam_ring_buff.o

 860 SCSA1394_OBJS += hba.o sbp2_driver.o sbp2_bus.o

 862 SBP2_OBJS += cfgrom.o sbp2.o

 864 PMODEM_OBJS += pmodem.o pmodem_cis.o cis.o cis_callout.o cis_handlers.o cis_para

 866 DSW_OBJS +=     dsw.o dsw_dev.o ii_tree.o

 868 NCALL_OBJS +=   ncall.o \
 869                 ncall_stub.o

 871 RDC_OBJS +=     rdc.o \
 872                 rdc_dev.o \
 873                 rdc_io.o \
 874                 rdc_clnt.o \
 875                 rdc_prot_xdr.o \
 876                 rdc_svc.o \
 877                 rdc_bitmap.o \
 878                 rdc_health.o \
 879                 rdc_subr.o \
 880                 rdc_diskq.o

 882 RDCSRV_OBJS += rdcsrv.o

 884 RDCSTUB_OBJS += rdc_stub.o

 886 SDBC_OBJS +=    sd_bcache.o \
 887                 sd_bio.o \
 888                 sd_conf.o \
 889                 sd_ft.o \
 890                 sd_hash.o \
 891                 sd_io.o \
 892                 sd_misc.o \
 893                 sd_pcu.o \
 894                 sd_tdaemon.o \
 895                 sd_trace.o \
 896                 sd_iob_impl0.o \
 897                 sd_iob_impl1.o \
 898                 sd_iob_impl2.o \
 899                 sd_iob_impl3.o \
 900                 sd_iob_impl4.o \
 901                 sd_iob_impl5.o \
 902                 sd_iob_impl6.o \
 903                 sd_iob_impl7.o \
 904                 safestore.o \
 905                 safestore_ram.o

 907 NSCTL_OBJS +=   nsctl.o \
 908                 nsc_cache.o \
 909                 nsc_disk.o \
 910                 nsc_dev.o \
 911                 nsc_freeze.o \
 912                 nsc_gen.o \
 913                 nsc_mem.o \
 914                 nsc_ncallio.o \
 915                 nsc_power.o \
 916                 nsc_resv.o \
 917                 nsc_rmspin.o \
 918                 nsc_solaris.o \
 919                 nsc_trap.o \
```

```
 920                 nsc_list.o
 921 UNISTAT_OBJS += spuni.o \
 922                 spcs_s_k.o

 924 NSKERN_OBJS += nsc_ddi.o \
 925                 nsc_proc.o \
 926                 nsc_raw.o \
 927                 nsc_thread.o \
 928                 nskernd.o

 930 SV_OBJS +=      sv.o

 932 PMCS_OBJS += pmcs_attach.o pmcs_ds.o pmcs_intr.o pmcs_nvram.o pmcs_sata.o \
 933                 pmcs_scsa.o pmcs_smhba.o pmcs_subr.o pmcs_fwlog.o

 935 PMCS8001FW_C_OBJS +=    pmcs_fw_hdr.o
 936 PMCS8001FW_OBJS +=              $(PMCS8001FW_C_OBJS) SPCBoot.o ila.o firmware.o

 938 #
 939 #       Build up defines and paths.

 941 ST_OBJS +=      st.o    st_conf.o

 943 EMLXS_OBJS +=   emlxs_clock.o emlxs_dfc.o emlxs_dhchap.o emlxs_diag.o \
 944                 emlxs_download.o emlxs_dump.o emlxs_els.o emlxs_event.o \
 945                 emlxs_fcf.o emlxs_fcp.o emlxs_fct.o emlxs_hba.o emlxs_ip.o \
 946                 emlxs_mbox.o emlxs_mem.o emlxs_msg.o emlxs_node.o \
 947                 emlxs_pkt.o emlxs_sli3.o emlxs_sli4.o emlxs_solaris.o \
 948                 emlxs_thread.o

 950 EMLXS_FW_OBJS +=        emlxs_fw.o

 952 OCE_OBJS +=     oce_buf.o oce_fm.o oce_gld.o oce_hw.o oce_intr.o oce_main.o \
 953                 oce_mbx.o oce_mq.o oce_queue.o oce_rx.o oce_stat.o oce_tx.o \
 954                 oce_utils.o

 956 FCT_OBJS += discovery.o fct.o

 958 QLT_OBJS += 2400.o 2500.o 8100.o qlt.o qlt_dma.o

 960 SRPT_OBJS += srpt_mod.o srpt_ch.o srpt_cm.o srpt_ioc.o srpt_stp.o

 962 FCOE_OBJS += fcoe.o fcoe_eth.o fcoe_fc.o

 964 FCOET_OBJS += fcoet.o fcoet_eth.o fcoet_fc.o

 966 FCOEI_OBJS += fcoei.o fcoei_eth.o fcoei_lv.o

 968 ISCSIT_SHARED_OBJS += \
 969                 iscsit_common.o

 971 ISCSIT_OBJS +=  $(ISCSIT_SHARED_OBJS) \
 972                 iscsit.o iscsit_tgt.o iscsit_sess.o iscsit_login.o \
 973                 iscsit_text.o iscsit_isns.o iscsit_radiusauth.o \
 974                 iscsit_radiuspacket.o iscsit_auth.o iscsit_authclient.o

 976 PPPT_OBJS +=    alua_ic_if.o pppt.o pppt_msg.o pppt_tgt.o

 978 STMF_OBJS += lun_map.o stmf.o

 980 STMF_SBD_OBJS += sbd.o sbd_scsi.o sbd_pgr.o sbd_zvol.o

 982 SYSMSG_OBJS +=  sysmsg.o

 984 SES_OBJS +=     ses.o ses_sen.o ses_safte.o ses_ses.o
```

```
 986 TNF_OBJS +=     tnf_buf.o       tnf_trace.o     tnf_writer.o    trace_init.o \
 987                 trace_funcs.o   tnf_probe.o     tnf.o

 989 LOGINDMUX_OBJS += logindmux.o

 991 DEVINFO_OBJS += devinfo.o

 993 DEVPOLL_OBJS += devpoll.o

 995 DEVPOOL_OBJS += devpool.o

 997 I8042_OBJS +=   i8042.o

 999 KB8042_OBJS +=  \
1000                 at_keyprocess.o \
1001                 kb8042.o        \
1002                 kb8042_keytables.o

1004 MOUSE8042_OBJS += mouse8042.o

1006 FDC_OBJS +=     fdc.o

1008 ASY_OBJS +=     asy.o

1010 ECPP_OBJS +=    ecpp.o

1012 VUIDM3P_OBJS += vuidmice.o vuidm3p.o

1014 VUIDM4P_OBJS += vuidmice.o vuidm4p.o

1016 VUIDM5P_OBJS += vuidmice.o vuidm5p.o

1018 VUIDPS2_OBJS += vuidmice.o vuidps2.o

1020 HPCSVC_OBJS += hpcsvc.o

1022 PCIE_MISC_OBJS += pcie.o pcie_fault.o pcie_hp.o pciehpc.o pcishpc.o pcie_pwr.o p

1024 PCIHPNEXUS_OBJS += pcihp.o

1026 OPENEEPR_OBJS += openprom.o

1028 RANDOM_OBJS += random.o

1030 PSHOT_OBJS += pshot.o

1032 GEN_DRV_OBJS += gen_drv.o

1034 TCLIENT_OBJS += tclient.o

1036 TPHCI_OBJS += tphci.o

1038 TVHCI_OBJS += tvhci.o

1040 EMUL64_OBJS += emul64.o emul64_bsd.o

1042 FCP_OBJS += fcp.o

1044 FCIP_OBJS += fcip.o

1046 FCSM_OBJS += fcsm.o

1048 FCTL_OBJS += fctl.o

1050 FP_OBJS += fp.o
```

```
1052 QLC_OBJS += ql_api.o ql_debug.o ql_hba_fru.o ql_init.o ql_iocb.o ql_ioctl.o \
1053         ql_isr.o ql_mbx.o ql_nx.o ql_xioctl.o ql_fw_table.o

1055 QLC_FW_2200_OBJS += ql_fw_2200.o

1057 QLC_FW_2300_OBJS += ql_fw_2300.o

1059 QLC_FW_2400_OBJS += ql_fw_2400.o

1061 QLC_FW_2500_OBJS += ql_fw_2500.o

1063 QLC_FW_6322_OBJS += ql_fw_6322.o

1065 QLC_FW_8100_OBJS += ql_fw_8100.o

1067 QLGE_OBJS += qlge.o qlge_dbg.o qlge_flash.o qlge_fm.o qlge_gld.o qlge_mpi.o

1069 ZCONS_OBJS += zcons.o

1071 NV_SATA_OBJS += nv_sata.o

1073 SI3124_OBJS += si3124.o

1075 AHCI_OBJS += ahci.o

1077 PCIIDE_OBJS += pci-ide.o

1079 PCEPP_OBJS += pcepp.o

1081 CPC_OBJS += cpc.o

1083 CPUID_OBJS += cpuid_drv.o

1085 SYSEVENT_OBJS += sysevent.o

1087 BL_OBJS += bl.o

1089 DRM_OBJS += drm_sunmod.o drm_kstat.o drm_agpsupport.o \
1090              drm_auth.o drm_bufs.o drm_context.o drm_dma.o \
1091              drm_drawable.o drm_drv.o drm_fops.o drm_ioctl.o drm_irq.o \
1092              drm_lock.o drm_memory.o drm_msg.o drm_pci.o drm_scatter.o \
1093              drm_cache.o drm_gem.o drm_mm.o ati_pcigart.o

1095 FM_OBJS += devfm.o devfm_machdep.o

1097 RTLS_OBJS +=    rtls.o

1099 #
1100 #                          exec modules
1101 #
1102 AOUTEXEC_OBJS +=aout.o

1104 ELFEXEC_OBJS += elf.o elf_notes.o old_notes.o

1106 INTPEXEC_OBJS +=intp.o

1108 SHBINEXEC_OBJS +=shbin.o

1110 JAVAEXEC_OBJS +=java.o

1112 #
1113 #                          file system modules
1114 #
1115 AUTOFS_OBJS +=  auto_vfsops.o auto_vnops.o auto_subr.o auto_xdr.o auto_sys.o

1117 CACHEFS_OBJS += cachefs_cnode.o         cachefs_cod.o \
```

```
1118              cachefs_dir.o          cachefs_dlog.o  cachefs_filegrp.o \
1119              cachefs_fscache.o      cachefs_ioctl.o cachefs_log.o \
1120              cachefs_module.o \
1121              cachefs_noopc.o        cachefs_resource.o \
1122              cachefs_strict.o \
1123              cachefs_subr.o         cachefs_vfsops.o \
1124              cachefs_vnops.o

1126 DCFS_OBJS +=     dc_vnops.o

1128 DEVFS_OBJS +=    devfs_subr.o    devfs_vfsops.o  devfs_vnops.o

1130 DEV_OBJS  +=     sdev_subr.o     sdev_vfsops.o   sdev_vnops.o     \
1131                  sdev_ptsops.o   sdev_zvolops.o  sdev_comm.o      \
1132                  sdev_profile.o  sdev_ncache.o   sdev_netops.o    \
1133                  sdev_ipnetops.o \
1134                  sdev_vtops.o

1136 CTFS_OBJS +=     ctfs_all.o ctfs_cdir.o ctfs_ctl.o ctfs_event.o \
1137                  ctfs_latest.o ctfs_root.o ctfs_sym.o ctfs_tdir.o ctfs_tmpl.o

1139 OBJFS_OBJS +=    objfs_vfs.o     objfs_root.o     objfs_common.o \
1140                  objfs_odir.o    objfs_data.o

1142 FDFS_OBJS +=     fdops.o

1144 FIFO_OBJS +=     fifosubr.o      fifovnops.o

1146 PIPE_OBJS +=     pipe.o

1148 HSFS_OBJS +=     hsfs_node.o     hsfs_subr.o      hsfs_vfsops.o   hsfs_vnops.o \
1149                  hsfs_susp.o     hsfs_rrip.o      hsfs_susp_subr.o

1151 LOFS_OBJS +=     lofs_subr.o     lofs_vfsops.o    lofs_vnops.o

1153 NAMEFS_OBJS +=   namevfs.o       namevno.o

1155 NFS_OBJS +=      nfs_client.o    nfs_common.o     nfs_dump.o \
1156                  nfs_subr.o      nfs_vfsops.o     nfs_vnops.o \
1157                  nfs_xdr.o       nfs_sys.o        nfs_strerror.o \
1158                  nfs3_vfsops.o   nfs3_vnops.o     nfs3_xdr.o \
1159                  nfs_acl_vnops.o nfs_acl_xdr.o    nfs4_vfsops.o \
1160                  nfs4_vnops.o    nfs4_xdr.o       nfs4_idmap.o \
1161                  nfs4_shadow.o   nfs4_subr.o \
1162                  nfs4_attr.o     nfs4_rnode.o     nfs4_client.o \
1163                  nfs4_acache.o   nfs4_common.o    nfs4_client_state.o \
1164                  nfs4_callback.o nfs4_recovery.o nfs4_client_secinfo.o \
1165                  nfs4_client_debug.o     nfs_stats.o \
1166                  nfs4_acl.o      nfs4_stub_vnops.o        nfs_cmd.o

1168 NFSSRV_OBJS += nfs_server.o    nfs_srv.o        nfs3_srv.o \
1169                  nfs_acl_srv.o   nfs_auth.o       nfs_auth_xdr.o \
1170                  nfs_export.o    nfs_log.o        nfs_log_xdr.o \
1171                  nfs4_srv.o      nfs4_state.o     nfs4_srv_attr.o \
1172                  nfs4_srv_ns.o   nfs4_db.o        nfs4_srv_deleg.o \
1173                  nfs4_deleg_ops.o nfs4_srv_readdir.o nfs4_dispatch.o

1175 SMBSRV_SHARED_OBJS += \
1176                  smb_inet.o \
1177                  smb_match.o \
1178                  smb_msgbuf.o \
1179                  smb_oem.o \
1180                  smb_string.o \
1181                  smb_utf8.o \
1182                  smb_door_legacy.o \
1183                  smb_xdr.o \
```

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1184                    smb_token.o \
1185                    smb_token_xdr.o \
1186                    smb_sid.o \
1187                    smb_native.o \
1188                    smb_netbios_util.o

1190 SMBSRV_OBJS +=     $(SMBSRV_SHARED_OBJS)                   \
1191                    smb_acl.o                               \
1192                    smb_alloc.o                             \
1193                    smb_close.o                             \
1194                    smb_common_open.o                       \
1195                    smb_common_transact.o                   \
1196                    smb_create.o                            \
1197                    smb_delete.o                            \
1198                    smb_directory.o                         \
1199                    smb_dispatch.o                          \
1200                    smb_echo.o                              \
1201                    smb_fem.o                               \
1202                    smb_find.o                              \
1203                    smb_flush.o                             \
1204                    smb_fsinfo.o                            \
1205                    smb_fsops.o                             \
1206                    smb_init.o                              \
1207                    smb_kdoor.o                             \
1208                    smb_kshare.o                            \
1209                    smb_kutil.o                             \
1210                    smb_lock.o                              \
1211                    smb_lock_byte_range.o                   \
1212                    smb_locking_andx.o                      \
1213                    smb_logoff_andx.o                       \
1214                    smb_mangle_name.o                       \
1215                    smb_mbuf_marshaling.o                   \
1216                    smb_mbuf_util.o                         \
1217                    smb_negotiate.o                         \
1218                    smb_net.o                               \
1219                    smb_node.o                              \
1220                    smb_nt_cancel.o                         \
1221                    smb_nt_create_andx.o                    \
1222                    smb_nt_transact_create.o                \
1223                    smb_nt_transact_ioctl.o                 \
1224                    smb_nt_transact_notify_change.o         \
1225                    smb_nt_transact_quota.o                 \
1226                    smb_nt_transact_security.o              \
1227                    smb_odir.o                              \
1228                    smb_ofile.o                             \
1229                    smb_open_andx.o                         \
1230                    smb_opipe.o                             \
1231                    smb_oplock.o                            \
1232                    smb_pathname.o                          \
1233                    smb_print.o                             \
1234                    smb_process_exit.o                      \
1235                    smb_query_fileinfo.o                    \
1236                    smb_read.o                              \
1237                    smb_rename.o                            \
1238                    smb_sd.o                                \
1239                    smb_seek.o                              \
1240                    smb_server.o                            \
1241                    smb_session.o                           \
1242                    smb_session_setup_andx.o                \
1243                    smb_set_fileinfo.o                      \
1244                    smb_signing.o                           \
1245                    smb_tree.o                              \
1246                    smb_trans2_create_directory.o           \
1247                    smb_trans2_dfs.o                        \
1248                    smb_trans2_find.o                       \
1249                    smb_tree_connect.o                      \
```

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1250                    smb_unlock_byte_range.o                 \
1251                    smb_user.o                              \
1252                    smb_vfs.o                               \
1253                    smb_vops.o                              \
1254                    smb_vss.o                               \
1255                    smb_write.o                             \
1256                    smb_write_raw.o

1258 PCFS_OBJS +=       pc_alloc.o      pc_dir.o        pc_node.o       pc_subr.o \
1259                    pc_vfsops.o     pc_vnops.o

1261 PROC_OBJS +=       prcontrol.o     prioctl.o       prsubr.o        prusrio.o \
1262                    prvfsops.o      prvnops.o

1264 MNTFS_OBJS +=      mntvfsops.o     mntvnops.o

1266 SHAREFS_OBJS += sharetab.o         sharefs_vfsops.o        sharefs_vnops.o

1268 SPEC_OBJS +=       specsubr.o      specvfsops.o    specvnops.o

1270 SOCK_OBJS +=       socksubr.o      sockvfsops.o    sockparams.o    \
1271                    socksyscalls.o  socktpi.o       sockstr.o \
1272                    sockcommon_vnops.o      sockcommon_subr.o \
1273                    sockcommon_sops.o       sockcommon.o    \
1274                    sock_notsupp.o  socknotify.o \
1275                    nl7c.o          nl7curi.o       nl7chttp.o      nl7clogd.o \
1276                    nl7cnca.o       sodirect.o      sockfilter.o

1278 TMPFS_OBJS +=      tmp_dir.o       tmp_subr.o      tmp_tnode.o     tmp_vfsops.o \
1279                    tmp_vnops.o

1281 UDFS_OBJS +=       udf_alloc.o     udf_bmap.o      udf_dir.o       \
1282                    udf_inode.o     udf_subr.o      udf_vfsops.o    \
1283                    udf_vnops.o

1285 UFS_OBJS +=        ufs_alloc.o     ufs_bmap.o      ufs_dir.o       ufs_xattr.o \
1286                    ufs_inode.o     ufs_subr.o      ufs_tables.o    ufs_vfsops.o \
1287                    ufs_vnops.o     quota.o         quotacalls.o    quota_ufs.o \
1288                    ufs_filio.o     ufs_lockfs.o    ufs_thread.o    ufs_trans.o \
1289                    ufs_acl.o       ufs_panic.o     ufs_directio.o  ufs_log.o \
1290                    ufs_extvnops.o  ufs_snap.o      lufs.o          lufs_thread.o \
1291                    lufs_log.o      lufs_map.o      lufs_top.o      lufs_debug.o
1292 VSCAN_OBJS +=      vscan_drv.o     vscan_svc.o vscan_door.o

1294 NSMB_OBJS +=       smb_conn.o      smb_dev.o       smb_iod.o       smb_pass.o \
1295                    smb_rq.o        smb_sign.o      smb_smb.o       smb_subrs.o \
1296                    smb_time.o      smb_tran.o      smb_trantcp.o   smb_usr.o \
1297                    subr_mchain.o

1299 SMBFS_COMMON_OBJS += smbfs_ntacl.o
1300 SMBFS_OBJS +=      smbfs_vfsops.o smbfs_vnops.o    smbfs_node.o    \
1301                    smbfs_acl.o     smbfs_client.o  smbfs_smb.o     \
1302                    smbfs_subr.o    smbfs_subr2.o   \
1303                    smbfs_rwlock.o  smbfs_xattr.o   \
1304                    $(SMBFS_COMMON_OBJS)


1307 #
1308 #                  LVM modules
1309 #
1310 MD_OBJS += md.o md_error.o md_ioctl.o md_mddb.o md_names.o \
1311        md_med.o md_rename.o md_subr.o

1313 MD_COMMON_OBJS = md_convert.o md_crc.o md_revchk.o

1315 MD_DERIVED_OBJS = metamed_xdr.o meta_basic_xdr.o
```

```
1317 SOFTPART_OBJS += sp.o sp_ioctl.o

1319 STRIPE_OBJS += stripe.o stripe_ioctl.o

1321 HOTSPARES_OBJS += hotspares.o

1323 RAID_OBJS += raid.o raid_ioctl.o raid_replay.o raid_resync.o raid_hotspare.o

1325 MIRROR_OBJS += mirror.o mirror_ioctl.o mirror_resync.o

1327 NOTIFY_OBJS += md_notify.o

1329 TRANS_OBJS += mdtrans.o trans_ioctl.o trans_log.o

1331 ZFS_COMMON_OBJS +=              \
1332        arc.o                   \
1333        bplist.o                \
1334        bpobj.o                 \
1335        bptree.o                \
1336        dbuf.o                  \
1337        ddt.o                   \
1338        ddt_zap.o               \
1339        dmu.o                   \
1340        dmu_diff.o              \
1341        dmu_send.o              \
1342        dmu_object.o            \
1343        dmu_objset.o            \
1344        dmu_traverse.o          \
1345        dmu_tx.o                \
1346        dnode.o                 \
1347        dnode_sync.o            \
1348        dsl_dir.o               \
1349        dsl_dataset.o           \
1350        dsl_deadlist.o          \
1351        dsl_destroy.o           \
1352        dsl_pool.o              \
1353        dsl_synctask.o          \
1354        dsl_userhold.o          \
1355        dmu_zfetch.o            \
1356        dsl_deleg.o             \
1357        dsl_prop.o              \
1358        dsl_scan.o              \
1359        zfeature.o              \
1360        gzip.o                  \
1361        lz4.o                   \
1362        lzjb.o                  \
1363        metaslab.o              \
1364        refcount.o              \
1365        rrwlock.o               \
1366        sa.o                    \
1367        sha256.o                \
1368        spa.o                   \
1369        spa_config.o            \
1370        spa_errlog.o            \
1371        spa_history.o           \
1372        spa_misc.o              \
1373        space_map.o             \
1374        txg.o                   \
1375        uberblock.o             \
1376        unique.o                \
1377        vdev.o                  \
1378        vdev_cache.o            \
1379        vdev_file.o             \
1380        vdev_label.o            \
1381        vdev_mirror.o           \
```

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1382        vdev_missing.o          \
1383        vdev_queue.o            \
1384        vdev_raidz.o            \
1385        vdev_root.o             \
1386        zap.o                   \
1387        zap_leaf.o              \
1388        zap_micro.o             \
1389        zfs_byteswap.o          \
1390        zfs_debug.o             \
1391        zfs_fm.o                \
1392        zfs_fuid.o              \
1393        zfs_sa.o                \
1394        zfs_znode.o             \
1395        zil.o                   \
1396        zio.o                   \
1397        zio_checksum.o          \
1398        zio_compress.o          \
1399        zio_inject.o            \
1400        zle.o                   \
1401        zrlock.o

1403 ZFS_SHARED_OBJS +=             \
1404        zfeature_common.o       \
1405        zfs_comutil.o           \
1406        zfs_deleg.o             \
1407        zfs_fletcher.o          \
1408        zfs_namecheck.o         \
1409        zfs_prop.o              \
1410        zpool_prop.o            \
1411        zprop_common.o

1413 ZFS_OBJS +=                    \
1414        $(ZFS_COMMON_OBJS)      \
1415        $(ZFS_SHARED_OBJS)      \
1416        vdev_disk.o             \
1417        zfs_acl.o               \
1418        zfs_ctldir.o            \
1419        zfs_dir.o               \
1420        zfs_ioctl.o             \
1421        zfs_log.o               \
1422        zfs_onexit.o            \
1423        zfs_replay.o            \
1424        zfs_rlock.o             \
1425        zfs_vfsops.o            \
1426        zfs_vnops.o             \
1427        zvol.o

1429 ZUT_OBJS +=                    \
1430        zut.o

1432 #
1433 #                    streams modules
1434 #
1435 BUFMOD_OBJS     +=     bufmod.o

1437 CONNLD_OBJS += connld.o

1439 DEDUMP_OBJS += dedump.o

1441 DRCOMPAT_OBJS +=      drcompat.o

1443 LDLINUX_OBJS += ldlinux.o

1445 LDTERM_OBJS += ldterm.o uwidth.o

1447 PCKT_OBJS +=     pckt.o
```

```
1449 PFMOD_OBJS +=    pfmod.o

1451 PTEM_OBJS +=     ptem.o

1453 REDIRMOD_OBJS += strredirm.o

1455 TIMOD_OBJS +=    timod.o

1457 TIRDWR_OBJS +=   tirdwr.o

1459 TTCOMPAT_OBJS +=ttcompat.o

1461 LOG_OBJS +=      log.o

1463 PIPEMOD_OBJS += pipemod.o

1465 RPCMOD_OBJS += rpcmod.o         clnt_cots.o     clnt_clts.o \
1466               clnt_gen.o       clnt_perr.o     mt_rpcinit.o    rpc_calmsg.o \
1467               rpc_prot.o       rpc_sztypes.o   rpc_subr.o      rpcb_prot.o \
1468               svc.o            svc_clts.o      svc_gen.o       svc_cots.o \
1469               rpcsys.o         xdr_sizeof.o    clnt_rdma.o     svc_rdma.o \
1470               xdr_rdma.o       rdma_subr.o     xdrrdma_sizeof.o

1472 TLIMOD_OBJS += tlimod.o         t_kalloc.o      t_kbind.o       t_kclose.o \
1473               t_kconnect.o     t_kfree.o       t_kgtstate.o    t_kopen.o \
1474               t_krcvudat.o     t_ksndudat.o    t_kspoll.o      t_kunbind.o \
1475               t_kutil.o

1477 RLMOD_OBJS += rlmod.o

1479 TELMOD_OBJS += telmod.o

1481 CRYPTMOD_OBJS += cryptmod.o

1483 KB_OBJS +=       kbd.o           keytables.o

1485 #
1486 #                       ID mapping module
1487 #
1488 IDMAP_OBJS +=   idmap_mod.o      idmap_kapi.o    idmap_xdr.o     idmap_cache.o

1490 #
1491 #                       scheduling class modules
1492 #
1493 SDC_OBJS +=              sysdc.o

1495 RT_OBJS +=               rt.o
1496 RT_DPTBL_OBJS +=         rt_dptbl.o

1498 TS_OBJS +=               ts.o
1499 TS_DPTBL_OBJS +=         ts_dptbl.o

1501 IA_OBJS +=               ia.o

1503 FSS_OBJS +=              fss.o

1505 FX_OBJS +=               fx.o
1506 FX_DPTBL_OBJS +=         fx_dptbl.o

1508 #
1509 #                       Inter-Process Communication (IPC) modules
1510 #
1511 IPC_OBJS +=     ipc.o

1513 IPCMSG_OBJS +=  msg.o
```

```
1515 IPCSEM_OBJS +=  sem.o

1517 IPCSHM_OBJS +=  shm.o

1519 #
1520 #                       bignum module
1521 #
1522 COMMON_BIGNUM_OBJS += bignum_mod.o bignumimpl.o

1524 BIGNUM_OBJS += $(COMMON_BIGNUM_OBJS) $(BIGNUM_PSR_OBJS)

1526 #
1527 #                       kernel cryptographic framework
1528 #
1529 KCF_OBJS +=     kcf.o kcf_callprov.o kcf_cbufcall.o kcf_cipher.o kcf_crypto.o \
1530                kcf_cryptoadm.o kcf_ctxops.o kcf_digest.o kcf_dual.o \
1531                kcf_keys.o kcf_mac.o kcf_mech_tabs.o kcf_miscapi.o \
1532                kcf_object.o kcf_policy.o kcf_prov_lib.o kcf_prov_tabs.o \
1533                kcf_sched.o kcf_session.o kcf_sign.o kcf_spi.o kcf_verify.o \
1534                kcf_random.o modes.o ecb.o cbc.o ctr.o ccm.o gcm.o \
1535                fips_random.o

1537 CRYPTOADM_OBJS += cryptoadm.o

1539 CRYPTO_OBJS +=  crypto.o

1541 DPROV_OBJS +=   dprov.o

1543 DCA_OBJS +=     dca.o dca_3des.o dca_debug.o dca_dsa.o dca_kstat.o dca_rng.o \
1544                dca_rsa.o

1546 AESPROV_OBJS += aes.o aes_impl.o aes_modes.o

1548 ARCFOURPROV_OBJS += arcfour.o arcfour_crypt.o

1550 BLOWFISHPROV_OBJS += blowfish.o blowfish_impl.o

1552 ECCPROV_OBJS += ecc.o ec.o ec2_163.o ec2_mont.o ecdecode.o ecl_mult.o \
1553                ecp_384.o ecp_jac.o ec2_193.o ecl.o ecp_192.o ecp_521.o \
1554                ecp_jm.o ec2_233.o ecl_curve.o ecp_224.o ecp_aff.o \
1555                ecp_mont.o ec2_aff.o ec_naf.o ecl_gf.o ecp_256.o mp_gf2m.o \
1556                mpi.o mplogic.o mpmontg.o mpprime.o oid.o \
1557                secitem.o ec2_test.o ecp_test.o

1559 RSAPROV_OBJS += rsa.o rsa_impl.o pkcs1.o

1561 SWRANDPROV_OBJS += swrand.o

1563 #
1564 #                       kernel SSL
1565 #
1566 KSSL_OBJS +=    kssl.o ksslioctl.o

1568 KSSL_SOCKFIL_MOD_OBJS += ksslfilter.o ksslapi.o ksslrec.o

1570 #
1571 #                       misc. modules
1572 #
1574 C2AUDIT_OBJS += adr.o audit.o audit_event.o audit_io.o \
1575                audit_path.o audit_start.o audit_syscalls.o audit_token.o \
1576                audit_mem.o

1578 PCIC_OBJS +=    pcic.o
```

```
1580 RPCSEC_OBJS +=  secmod.o        sec_clnt.o      sec_svc.o       sec_gen.o \
1581                 auth_des.o      auth_kern.o     auth_none.o     auth_loopb.o\
1582                 authdesprt.o    authdesubr.o    authu_prot.o \
1583                 key_call.o      key_prot.o      svc_authu.o     svcauthdes.o

1585 RPCSEC_GSS_OBJS +=      rpcsec_gssmod.o rpcsec_gss.o rpcsec_gss_misc.o \
1586                 rpcsec_gss_utils.o svc_rpcsec_gss.o

1588 CONSCONFIG_OBJS += consconfig.o

1590 CONSCONFIG_DACF_OBJS  += consconfig_dacf.o consplat.o

1592 TEM_OBJS += tem.o tem_safe.o 6x10.o 7x14.o 12x22.o

1594 KBTRANS_OBJS +=                         \
1595                 kbtrans.o               \
1596                 kbtrans_keytables.o     \
1597                 kbtrans_polled.o        \
1598                 kbtrans_streams.o       \
1599                 usb_keytables.o

1601 KGSSD_OBJS +=   gssd_clnt_stubs.o gssd_handle.o gssd_prot.o \
1602                 gss_display_name.o gss_release_name.o gss_import_name.o \
1603                 gss_release_buffer.o gss_release_oid_set.o gen_oids.o gssdmod.o

1605 KGSSD_DERIVED_OBJS = gssd_xdr.o

1607 KGSS_DUMMY_OBJS += dmech.o

1609 KSOCKET_OBJS += ksocket.o ksocket_mod.o

1611 CRYPTO= cksumtypes.o decrypt.o encrypt.o encrypt_length.o etypes.o \
1612         nfold.o verify_checksum.o prng.o block_size.o make_checksum.o\
1613         checksum_length.o hmac.o default_state.o mandatory_sumtype.o

1615 # crypto/des
1616 CRYPTO_DES= f_cbc.o f_cksum.o f_parity.o weak_key.o d3_cbc.o ef_crypto.o

1618 CRYPTO_DK= checksum.o derive.o dk_decrypt.o dk_encrypt.o

1620 CRYPTO_ARCFOUR= k5_arcfour.o

1622 # crypto/enc_provider
1623 CRYPTO_ENC= des.o des3.o arcfour_provider.o aes_provider.o

1625 # crypto/hash_provider
1626 CRYPTO_HASH= hash_kef_generic.o hash_kmd5.o hash_crc32.o hash_ksha1.o

1628 # crypto/keyhash_provider
1629 CRYPTO_KEYHASH= descbc.o k5_kmd5des.o k_hmac_md5.o

1631 # crypto/crc32
1632 CRYPTO_CRC32= crc32.o

1634 # crypto/old
1635 CRYPTO_OLD= old_decrypt.o old_encrypt.o

1637 # crypto/raw
1638 CRYPTO_RAW= raw_decrypt.o raw_encrypt.o

1640 K5_KRB= kfree.o copy_key.o \
1641         parse.o init_ctx.o \
1642         ser_adata.o ser_addr.o \
1643         ser_auth.o ser_cksum.o \
1644         ser_key.o ser_princ.o \
1645         serialize.o unparse.o \
```

```
1646         ser_actx.o

1648 K5_OS=  timeofday.o toffset.o \
1649         init_os_ctx.o c_ustime.o

1651 SEAL=
1652 # EXPORT DELETE START
1653 SEAL=   seal.o unseal.o
1654 # EXPORT DELETE END

1656 MECH=   delete_sec_context.o \
1657         import_sec_context.o \
1658         gssapi_krb5.o \
1659         k5seal.o k5unseal.o k5sealv3.o \
1660         ser_sctx.o \
1661         sign.o \
1662         util_crypt.o  \
1663         util_validate.o  util_ordering.o  \
1664         util_seqnum.o util_set.o util_seed.o \
1665         wrap_size_limit.o verify.o


1669 MECH_GEN= util_token.o


1672 KGSS_KRB5_OBJS += krb5mech.o \
1673         $(MECH) $(SEAL) $(MECH_GEN) \
1674         $(CRYPTO) $(CRYPTO_DES) $(CRYPTO_DK) $(CRYPTO_ARCFOUR) \
1675         $(CRYPTO_ENC) $(CRYPTO_HASH) \
1676         $(CRYPTO_KEYHASH) $(CRYPTO_CRC32) \
1677         $(CRYPTO_OLD) \
1678         $(CRYPTO_RAW) $(K5_KRB) $(K5_OS)

1680 DES_OBJS +=     des_crypt.o des_impl.o des_ks.o des_soft.o

1682 DLBOOT_OBJS +=  bootparam_xdr.o nfs_dlinet.o scan.o

1684 KRTLD_OBJS +=   kobj_bootflags.o getoptstr.o \
1685                 kobj.o kobj_kdi.o kobj_lm.o kobj_subr.o

1687 MOD_OBJS +=     modctl.o modsubr.o modsysfile.o modconf.o modhash.o

1689 STRPLUMB_OBJS += strplumb.o

1691 CPR_OBJS +=     cpr_driver.o cpr_dump.o \
1692                 cpr_main.o cpr_misc.o cpr_mod.o cpr_stat.o \
1693                 cpr_uthread.o

1695 PROF_OBJS +=    prf.o

1697 SE_OBJS += se_driver.o

1699 SYSACCT_OBJS += acct.o

1701 ACCTCTL_OBJS += acctctl.o

1703 EXACCTSYS_OBJS += exacctsys.o

1705 KAIO_OBJS += aio.o

1707 PCMCIA_OBJS += pcmcia.o cs.o cis.o cis_callout.o cis_handlers.o cis_params.o

1709 BUSRA_OBJS += busra.o

1711 PCS_OBJS += pcs.o
```

```
1713 PCAN_OBJS += pcan.o

1715 PCATA_OBJS += pcide.o pcdisk.o pclabel.o pcata.o

1717 PCSER_OBJS += pcser.o pcser_cis.o

1719 PCWL_OBJS += pcwl.o
1721 PSET_OBJS +=     pset.o

1723 OHCI_OBJS += ohci.o ohci_hub.o ohci_polled.o

1725 UHCI_OBJS += uhci.o uhciutil.o uhcitgt.o uhcihub.o uhcipolled.o

1727 EHCI_OBJS += ehci.o ehci_hub.o ehci_xfer.o ehci_intr.o ehci_util.o ehci_polled.o

1729 HUBD_OBJS += hubd.o

1731 USB_MID_OBJS += usb_mid.o

1733 USB_IA_OBJS += usb_ia.o

1735 UWBA_OBJS += uwba.o uwbai.o

1737 SCSA2USB_OBJS += scsa2usb.o usb_ms_bulkonly.o usb_ms_cbi.o

1739 HWAHC_OBJS += hwahc.o hwahc_util.o

1741 WUSB_DF_OBJS += wusb_df.o
1742 WUSB_FWMOD_OBJS += wusb_fwmod.o

1744 IPF_OBJS += ip_fil_solaris.o fil.o solaris.o ip_state.o ip_frag.o ip_nat.o \
1745              ip_proxy.o ip_auth.o ip_pool.o ip_htable.o ip_lookup.o \
1746              ip_log.o misc.o ip_compat.o ip_nat6.o drand48.o

1748 IBD_OBJS +=     ibd.o ibd_cm.o

1750 EIBNX_OBJS +=   enx_main.o enx_hdlrs.o enx_ibt.o enx_log.o enx_fip.o \
1751                 enx_misc.o enx_q.o enx_ctl.o

1753 EOIB_OBJS +=    eib_adm.o eib_chan.o eib_cmn.o eib_ctl.o eib_data.o \
1754                 eib_fip.o eib_ibt.o eib_log.o eib_mac.o eib_main.o \
1755                 eib_rsrc.o eib_svc.o eib_vnic.o

1757 DLPISTUB_OBJS += dlpistub.o

1759 SDP_OBJS +=     sdpddi.o

1761 TRILL_OBJS +=   trill.o

1763 CTF_OBJS += ctf_create.o ctf_decl.o ctf_error.o ctf_hash.o ctf_labels.o \
1764         ctf_lookup.o ctf_open.o ctf_types.o ctf_util.o ctf_subr.o ctf_mod.o

1766 SMBIOS_OBJS += smb_error.o smb_info.o smb_open.o smb_subr.o smb_dev.o

1768 RPCIB_OBJS += rpcib.o

1770 KMDB_OBJS += kdrv.o

1772 AFE_OBJS += afe.o

1774 BGE_OBJS += bge_main2.o bge_chip2.o bge_kstats.o bge_log.o bge_ndd.o \
1775                 bge_atomic.o bge_mii.o bge_send.o bge_recv2.o bge_mii_5906.o

1777 DMFE_OBJS += dmfe_log.o dmfe_main.o dmfe_mii.o
```

```
1779 EFE_OBJS += efe.o

1781 ELXL_OBJS += elxl.o

1783 HME_OBJS += hme.o

1785 IXGB_OBJS += ixgb.o ixgb_atomic.o ixgb_chip.o ixgb_gld.o ixgb_kstats.o \
1786                 ixgb_log.o ixgb_ndd.o ixgb_rx.o ixgb_tx.o ixgb_xmii.o

1788 NGE_OBJS += nge_main.o nge_atomic.o nge_chip.o nge_ndd.o nge_kstats.o \
1789                 nge_log.o nge_rx.o nge_tx.o nge_xmii.o

1791 PCN_OBJS += pcn.o

1793 RGE_OBJS += rge_main.o rge_chip.o rge_ndd.o rge_kstats.o rge_log.o rge_rxtx.o

1795 URTW_OBJS += urtw.o

1797 ARN_OBJS += arn_hw.o arn_eeprom.o arn_mac.o arn_calib.o arn_ani.o arn_phy.o arn_
1798                 arn_main.o arn_recv.o arn_xmit.o arn_rc.o

1800 ATH_OBJS += ath_aux.o ath_main.o ath_osdep.o ath_rate.o

1802 ATU_OBJS += atu.o

1804 IPW_OBJS += ipw2100_hw.o ipw2100.o

1806 IWI_OBJS += ipw2200_hw.o ipw2200.o

1808 IWH_OBJS += iwh.o

1810 IWK_OBJS += iwk2.o

1812 IWP_OBJS += iwp.o

1814 MWL_OBJS += mwl.o

1816 MWLFW_OBJS += mwlfw_mode.o

1818 WPI_OBJS += wpi.o

1820 RAL_OBJS += rt2560.o ral_rate.o

1822 RUM_OBJS += rum.o

1824 RWD_OBJS += rt2661.o

1826 RWN_OBJS += rt2860.o

1828 UATH_OBJS += uath.o

1830 UATHFW_OBJS += uathfw_mod.o

1832 URAL_OBJS += ural.o

1834 RTW_OBJS += rtw.o smc93cx6.o rtwphy.o rtwphyio.o

1836 ZYD_OBJS += zyd.o zyd_usb.o zyd_hw.o zyd_fw.o

1838 MXFE_OBJS += mxfe.o

1840 MPTSAS_OBJS += mptsas.o mptsas_impl.o mptsas_init.o mptsas_raid.o mptsas_smhba.o

1842 SFE_OBJS += sfe.o sfe_util.o
```

```
1844 BFE_OBJS += bfe.o

1846 BRIDGE_OBJS += bridge.o

1848 IDM_SHARED_OBJS += base64.o

1850 IDM_OBJS +=     $(IDM_SHARED_OBJS) \
1851                 idm.o idm_impl.o idm_text.o idm_conn_sm.o idm_so.o

1853 VR_OBJS += vr.o

1855 ATGE_OBJS += atge_main.o atge_l1e.o atge_mii.o atge_l1.o atge_l1c.o

1857 YGE_OBJS = yge.o

1859 #
1860 #       Build up defines and paths.
1861 #
1862 LINT_DEFS       += -Dunix

1864 #
1865 #       This duality can be removed when the native and target compilers
1866 #       are the same (or at least recognize the same command line syntax!)
1867 #       It is a bug in the current compilation system that the assember
1868 #       can't process the -Y I, flag.
1869 #
1870 NATIVE_INC_PATH += $(INC_PATH) $(CCYFLAG)$(UTSBASE)/common
1871 AS_INC_PATH     += $(INC_PATH) -I$(UTSBASE)/common
1872 INCLUDE_PATH    += $(INC_PATH) $(CCYFLAG)$(UTSBASE)/common

1874 PCIEB_OBJS += pcieb.o

1876 #       Chelsio N110 10G NIC driver module
1877 #
1878 CH_OBJS = ch.o glue.o pe.o sge.o

1880 CH_COM_OBJS =   ch_mac.o ch_subr.o cspi.o espi.o ixf1010.o mc3.o mc4.o mc5.o \
1881                 mv88e1xxx.o mv88x201x.o my3126.o pm3393.o tp.o ulp.o \
1882                 vsc7321.o vsc7326.o xpak.o

1884 #
1885 #       Chelsio Terminator 4 10G NIC nexus driver module
1886 #
1887 CXGBE_FW_OBJS  =        t4_fw.o t4_cfg.o
1888 CXGBE_COM_OBJS =        t4_hw.o common.o
1889 CXGBE_NEX_OBJS =        t4_nexus.o t4_sge.o t4_mac.o t4_ioctl.o shared.o \
1890                         t4_l2t.o adapter.o osdep.o

1892 #
1893 #       Chelsio Terminator 4 10G NIC driver module
1894 #
1895 CXGBE_OBJS =    cxgbe.o

1897 #
1898 #       PCI strings file
1899 #
1900 PCI_STRING_OBJS = pci_strings.o

1902 NET_DACF_OBJS += net_dacf.o

1904 #
1905 #       Xframe 10G NIC driver module
1906 #
1907 XGE_OBJS = xge.o xgell.o

1909 XGE_HAL_OBJS =  xgehal-channel.o xgehal-fifo.o xgehal-ring.o  xgehal-config.o \
```

```
1910                 xgehal-driver.o  xgehal-mm.o xgehal-stats.o  xgehal-device.o \
1911                 xge-queue.o  xgehal-mgmt.o xgehal-mgmtaux.o

1913 #
1914 #       e1000g module
1915 #
1916 E1000G_OBJS += e1000_80003es2lan.o e1000_82540.o e1000_82541.o e1000_82542.o \
1917                e1000_82543.o e1000_82571.o e1000_api.o e1000_ich8lan.o \
1918                e1000_mac.o e1000_manage.o e1000_nvm.o e1000_osdep.o \
1919                e1000_phy.o e1000g_debug.o e1000g_main.o e1000g_alloc.o \
1920                e1000g_tx.o e1000g_rx.o e1000g_stat.o

1922 #
1923 #       Intel 82575 1G NIC driver module
1924 #
1925 IGB_OBJS =      igb_82575.o igb_api.o igb_mac.o igb_manage.o \
1926                 igb_nvm.o igb_osdep.o igb_phy.o igb_buf.o \
1927                 igb_debug.o igb_gld.o igb_log.o igb_main.o \
1928                 igb_rx.o igb_stat.o igb_tx.o

1930 #
1931 #       Intel Pro/100 NIC driver module
1932 #
1933 IPRB_OBJS =     iprb.o

1935 #
1936 #       Intel 10GbE PCIE NIC driver module
1937 #
1938 IXGBE_OBJS =    ixgbe_82598.o ixgbe_82599.o ixgbe_api.o         \
1939                 ixgbe_common.o ixgbe_phy.o                      \
1940                 ixgbe_buf.o ixgbe_debug.o ixgbe_gld.o           \
1941                 ixgbe_log.o ixgbe_main.o                        \
1942                 ixgbe_osdep.o ixgbe_rx.o ixgbe_stat.o           \
1943                 ixgbe_tx.o  ixgbe_x540.o ixgbe_mbx.o

1945 #
1946 #       NIU 10G/1G driver module
1947 #
1948 NXGE_OBJS =     nxge_mac.o nxge_ipp.o nxge_rxdma.o             \
1949                 nxge_txdma.o nxge_txc.o nxge_main.o             \
1950                 nxge_hw.o nxge_fzc.o nxge_virtual.o             \
1951                 nxge_send.o nxge_classify.o nxge_fflp.o         \
1952                 nxge_fflp_hash.o nxge_ndd.o nxge_kstats.o       \
1953                 nxge_zcp.o nxge_fm.o nxge_espc.o nxge_hv.o      \
1954                 nxge_hio.o nxge_hio_guest.o nxge_intr.o

1956 NXGE_NPI_OBJS = \
1957                 npi.o npi_mac.o npi_ipp.o                       \
1958                 npi_txdma.o npi_rxdma.o npi_txc.o               \
1959                 npi_zcp.o npi_espc.o npi_fflp.o                 \
1960                 npi_vir.o

1962 NXGE_HCALL_OBJS =       \
1963                 nxge_hcall.o

1965 #
1966 # Virtio modules
1967 #

1969 # Virtio core
1970 VIRTIO_OBJS = virtio.o

1972 # Virtio block driver
1973 VIOBLK_OBJS = vioblk.o

1975 #
```

```
1976 #        kiconv modules
1977 #
1978 KICONV_EMEA_OBJS += kiconv_emea.o

1980 KICONV_JA_OBJS += kiconv_ja.o

1982 KICONV_KO_OBJS += kiconv_cck_common.o kiconv_ko.o

1984 KICONV_SC_OBJS += kiconv_cck_common.o kiconv_sc.o

1986 KICONV_TC_OBJS += kiconv_cck_common.o kiconv_tc.o

1988 #
1989 #        AAC module
1990 #
1991 AAC_OBJS = aac.o aac_ioctl.o

1993 #
1994 #        sdcard modules
1995 #
1996 SDA_OBJS =        sda_cmd.o sda_host.o sda_init.o sda_mem.o sda_mod.o sda_slot.o
1997 SDHOST_OBJS =    sdhost.o

1999 #
2000 #        hxge 10G driver module
2001 #
2002 HXGE_OBJS =      hxge_main.o hxge_vmac.o hxge_send.o            \
2003                  hxge_txdma.o hxge_rxdma.o hxge_virtual.o       \
2004                  hxge_fm.o hxge_fzc.o hxge_hw.o hxge_kstats.o   \
2005                  hxge_ndd.o hxge_pfc.o                          \
2006                  hpi.o hpi_vmac.o hpi_rxdma.o hpi_txdma.o       \
2007                  hpi_vir.o hpi_pfc.o

2009 #
2010 #        MEGARAID_SAS module
2011 #
2012 MEGA_SAS_OBJS = megaraid_sas.o

2014 #
2015 #        MR_SAS module
2016 #
2017 MR_SAS_OBJS = ld_pd_map.o mr_sas.o mr_sas_tbolt.o mr_sas_list.o

2019 #
2020 #        ISCSI_INITIATOR module
2021 #
2022 ISCSI_INITIATOR_OBJS =  chap.o iscsi_io.o iscsi_thread.o          \
2023                         iscsi_ioctl.o iscsid.o iscsi.o           \
2024                         iscsi_login.o isns_client.o iscsiAuthClient.o   \
2025                         iscsi_lun.o iscsiAuthClientGlue.o         \
2026                         iscsi_net.o nvfile.o iscsi_cmd.o          \
2027                         iscsi_queue.o persistent.o iscsi_conn.o  \
2028                         iscsi_sess.o radius_auth.o iscsi_crc.o   \
2029                         iscsi_stats.o radius_packet.o iscsi_doorclt.o   \
2030                         iscsi_targetparam.o utils.o kifconf.o

2032 #
2033 #        ntxn 10Gb/1Gb NIC driver module
2034 #
2035 NTXN_OBJS =     unm_nic_init.o unm_gem.o unm_nic_hw.o unm_ndd.o \
2036                        unm_nic_main.o unm_nic_isr.o unm_nic_ctx.o niu.o

2038 #
2039 #        Myricom 10Gb NIC driver module
2040 #
2041 MYRI10GE_OBJS = myri10ge.o myri10ge_lro.o
```

```
2043 #        nulldriver module
2044 #
2045 NULLDRIVER_OBJS =        nulldriver.o

2047 TPM_OBJS =      tpm.o tpm_hcall.o
```

```
**********************************************************
    6146 Thu Jul 25 14:31:03 2013
new/usr/src/uts/common/os/intrd.c
XXX Rearchitect and replace interrupt distribution
**********************************************************
   1 /*
   2  * This file and its contents are supplied under the terms of the
   3  * Common Development and Distribution License ("CDDL"), version 1.0.
   4  * You may only use this file in accordance with the terms of version
   5  * 1.0 of the CDDL.
   6  *
   7  * A full copy of the text of the CDDL should have accompanied this
   8  * source.  A copy of the CDDL is also available via the Internet at
   9  * http://www.illumos.org/license/CDDL.
  10  */

  12 /*
  13  * Copyright 2013 David Hoeppner.  All rights reserved.
  14  */

  16 /*
  17  * Interrupt Load Balancer.
  18  *
  19  *
  20  */

  22 /* XXX
  23  *
  24  * intrd_cpu_list::walk list |::print intrd_cpu_t
  25  *
  26  *
  27  *
  28  */
  29 #include <sys/param.h>
  30 #include <sys/types.h>
  31 #include <sys/systm.h>
  32 #include <sys/apic.h>
  33 #include <sys/callb.h>
  34 #include <sys/cpuvar.h>
  35 #include <sys/proc.h>
  36 #include <sys/processor.h>
  37 #include <sys/sdt.h>
  38 #include <sys/sysmacros.h>
  39 #include <sys/time.h>

  41 extern   proc_t  *proc_intrd;

  43 #define INTRD_NAME               "intrd"

  45 #define IS_CPU(cpu_id)          (cpu[cpu_id] != NULL)

  47 #define INTRD_NORMAL_SLEEPTIME   10
  48 #define INTRD_IDLE_SLEEPTIME     45
  49 #define INTRD_ONECPU_SLEEPTIME   (60 * 15)

  51 #define INTRD_NUMBER_SAMPLES     10


  54 static kmutex_t          intrd_lock;
  55 static kcondvar_t        intrd_cv;

  57 /*
  58  * Interrupt CPU instance.
  59  */
  60 typedef struct _intrd_cpu {
  61         list_node_t     ic_next;
```

```
  62         boolean_t       ic_offline;
  63         hrtime_t        ic_tot[INTRD_NUMBER_SAMPLES];
  64         list_t          ic_ivec_list;
  65         processorid_t   ic_cpu_id;       /* XXX duplicate */
  66 } intrd_cpu_t;

  68 /*
  69  * Interrupt vector instance.
  70  */
  71 typedef struct _intrd_ivec {
  72         list_node_t     ii_next;
  73 } intrd_ivec_t;

  75 static list_t   intrd_cpu_list;         /* List of all CPU's */

  77 static uint8_t  intrd_cs = 0;           /* Index of current sample  */
  78 static long     intrd_sleeptime = INTRD_NORMAL_SLEEPTIME;

  80 /*
  81  * Function prototypes.
  82  */
  83 static  void    intrd_update(void *);
  84 static  void    intrd_cpu_register(processorid_t);
  85 static  int     intrd_cpu_setup(cpu_setup_t, int, void *);
  86 static  void    intrd_stat_all(void);

  88 /*
  89  * Helper macros.
  90  */
  91 #define FOREACH_INTRD_CPU(icpu, icpu_list)                          \
  92         for (icpu = list_head(&icpu_list); icpu != NULL;         \
  93             icpu = list_next(&icpu_list, icpu))

  95 #define DTRACE_INTRD(name)      \
  96         DTRACE_PROBE(__intrd_##name)

  98 #define DEBUG    1
  99 #ifdef  DEBUG
 100 #define INTRD_IMPLDBG(args)      cmn_err args
 101 #else
 102 #define INTRD_IMPLDBG(args)
 103 #endif

 105 void
 106 intrd(void)
 107 {
 108         processorid_t   cpu_id;
 109         callb_cpr_t     cpr;
 110         user_t          *u = PTOU(curproc);

 112         proc_intrd = ttoproc(curthread);
 113         proc_intrd->p_cstime = proc_intrd->p_stime = 0;
 114         proc_intrd->p_cutime = proc_intrd->p_utime = 0;

 116         (void) strncpy(u->u_psargs, INTRD_NAME, sizeof(u->u_psargs));
 117         (void) strncpy(u->u_comm, INTRD_NAME, sizeof(u->u_comm));

 119         /* Global mutex lock */
 120         mutex_init(&intrd_lock, NULL, MUTEX_DEFAULT, NULL);

 122         /* Initialize list for CPUs */
 123         list_create(&intrd_cpu_list, sizeof (intrd_cpu_t),
 124             offsetof(intrd_cpu_t, ic_next));

 126         /*
 127          * Build a list of all CPUs able for interrupt handling.
```

```
128                */
129          mutex_enter(&cpu_lock);
130          for (cpu_id = 0; cpu_id <= max_cpu_seqid_ever; cpu_id++) {
131                  if (IS_CPU(cpu_id))
132                          intrd_cpu_register(cpu_id);
133          }

135          /*
136           * Register a callback if a CPU goes offline or comes online.
137           */
138          register_cpu_setup_func(intrd_cpu_setup, NULL);
139          mutex_exit(&cpu_lock);

141          /* We should have at least one CPU */
142          // ASSERT(!list_is_empty(&intrd_cpu_list));
143          // ASSERT(intrd_number_cpus >= 1);

145          CALLB_CPR_INIT(&cpr, &intrd_lock, callb_generic_cpr, INTRD_NAME);

147          mutex_enter(&intrd_lock);
148          for (;;) {

150                  DTRACE_INTRD(stat_all);
151                  intrd_stat_all();

153                  CALLB_CPR_SAFE_BEGIN(&cpr);
154                  cv_timedwait(&intrd_cv, &intrd_lock, ddi_get_lbolt() +
155                      SEC_TO_TICK(intrd_sleeptime));
156                  CALLB_CPR_SAFE_END(&cpr, &intrd_lock);
157          }

159          CALLB_CPR_EXIT(&cpr);

161          /*
162           * Unregister CPU callback.
163           */
164          mutex_enter(&cpu_lock);
165          unregister_cpu_setup_func(intrd_cpu_setup, NULL);
166          mutex_exit(&cpu_lock);
167 }

169 /*
170  * Allocate a new intrd CPU structure and add CPU
171  * to the global list of CPUs.
172  */
173 static void
174 intrd_cpu_register(processorid_t cpu_id)
175 {
176          cpu_t           *cp = cpu[cpu_id];
177          intrd_cpu_t     *new_cpu;

179          new_cpu = kmem_alloc(sizeof (intrd_cpu_t), KM_SLEEP);
180          new_cpu->ic_cpu_id = cpu_id;

182          /* Initialize list for interrupt vectors */
183          list_create(&new_cpu->ic_ivec_list, sizeof (intrd_ivec_t),
184              offsetof(intrd_ivec_t, ii_next));

186          list_link_init(&new_cpu->ic_next);

188          /* Check if this CPU can handle interrupts */
189          mutex_enter(&cpu_lock);
190          if (cpu_is_nointr(cp))
191                  new_cpu->ic_offline = B_TRUE;
192          mutex_exit(&cpu_lock);
```

```
194          /* Add new CPU to the list of all CPU's */
195          list_insert_tail(&intrd_cpu_list, new_cpu);

197          INTRD_IMPLDBG((CE_CONT, "intrd_cpu_register: cpu=0x%x", cpu_id));
198 }

200 /*
201  * Remove a CPU from the global list of CPUs.
202  */
203 static void
204 intrd_cpu_unregister(processorid_t cpu_id)
205 {
206          intrd_cpu_t     *icpu;

208          mutex_enter(&intrd_lock);
209          FOREACH_INTRD_CPU(icpu, intrd_cpu_list) {
210                  if (icpu->ic_cpu_id == cpu_id) {
211                          list_remove(&intrd_cpu_list, icpu);
212                          /* XXX or just offline CPU; statistics? */
213                          break;
214                  }
215          }
216          mutex_exit(&intrd_lock);

218          INTRD_IMPLDBG((CE_CONT, "intrd_cpu_unregister: cpu=0x%x",
219              cpu_id));
220 }

222 /*
223  * Hook for CPU changes.
224  */
225 static int
226 intrd_cpu_setup(cpu_setup_t what, int cpu_id, void *arg)
227 {

229          switch (what) {
230          /* XXX */
231          case CPU_OFF:
232                  intrd_cpu_unregister(cpu_id);
233                  cv_signal(&intrd_cv);
234                  break;

236          case CPU_INTR_ON:
237                  intrd_cpu_register(cpu_id);
238                  cv_signal(&intrd_cv);
239                  break;

241          default:
242                  break;
243          }

245          return (0);
246 }

248 static void
249 intrd_cpu_stat(intrd_cpu_t *icpu)
250 {
251          cpu_t           *cp;
252          hrtime_t        msnsecs[NCMSTATES];

254          cp = cpu[icpu->ic_cpu_id];
255          get_cpu_mstate(cp, msnsecs);

257          icpu->ic_tot[intrd_cs] = msnsecs[CMS_IDLE] + msnsecs[CMS_USER] +
258              msnsecs[CMS_SYSTEM];
259 }
```

```
261  static void
262  intrd_irq_stat(intrd_cpu_t *icpu)
263  {
264          apic_irq_t        *irqp;
265          int               irq_id;

267          /* XXX: Do better then APIC_MAX_VECTOR */
268          for (irq_id = APIC_FIRST_FREE_IRQ; irq_id < APIC_MAX_VECTOR;
269              irq_id++) {
270  /*
271                  irqp = apic_irq_table[irq_id];
272                  if (icpu->ic_cpu_id == (processorid_t)irqp->airq_cpu) {
273                          INTRD_IMPLDBG((CE_CONT, "intrd_irq_stat: irq:0x%x",
274                              irqp->airq_cpu));
275                  }
276  */
277          }
278  }

280  static void
281  intrd_stat_all(void)
282  {
283          intrd_cpu_t       *icpu;

285          FOREACH_INTRD_CPU(icpu, intrd_cpu_list) {
286                  intrd_cpu_stat(icpu);
287                  intrd_irq_stat(icpu);
288          }
289  }

291  static void
292  intrd_interrupt_move(void)
293  {
294          /* XXX: pcitool_set_intr(dip, arg, mode); */
295  }
296  #endif /* ! codereview */
```

```
**********************************************************
   17263 Thu Jul 25 14:31:03 2013
new/usr/src/uts/common/os/main.c
XXX Rearchitect and replace interrupt distribution
**********************************************************
   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.
   7  *
   8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
   9  * or http://www.opensolaris.org/os/licensing.
  10  * See the License for the specific language governing permissions
  11  * and limitations under the License.
  12  *
  13  * When distributing Covered Code, include this CDDL HEADER in each
  14  * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
  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  */

  22 /*
  23  * Copyright (c) 1988, 2010, Oracle and/or its affiliates. All rights reserved.
  24  */

  26 /*      Copyright (c) 1988 AT&T */
  27 /*        All Rights Reserved   */

  29 #include <sys/types.h>
  30 #include <sys/param.h>
  31 #include <sys/sysmacros.h>
  32 #include <sys/pcb.h>
  33 #include <sys/systm.h>
  34 #include <sys/signal.h>
  35 #include <sys/cred.h>
  36 #include <sys/user.h>
  37 #include <sys/vfs.h>
  38 #include <sys/vnode.h>
  39 #include <sys/proc.h>
  40 #include <sys/time.h>
  41 #include <sys/file.h>
  42 #include <sys/priocntl.h>
  43 #include <sys/procset.h>
  44 #include <sys/disp.h>
  45 #include <sys/callo.h>
  46 #include <sys/callb.h>
  47 #include <sys/debug.h>
  48 #include <sys/conf.h>
  49 #include <sys/bootconf.h>
  50 #include <sys/utsname.h>
  51 #include <sys/cmn_err.h>
  52 #include <sys/vmparam.h>
  53 #include <sys/modctl.h>
  54 #include <sys/vm.h>
  55 #include <sys/callb.h>
  56 #include <sys/ddi_timer.h>
  57 #include <sys/kmem.h>
  58 #include <sys/vmem.h>
  59 #include <sys/cpuvar.h>
  60 #include <sys/cladm.h>
  61 #include <sys/corectl.h>
```

```
  62 #include <sys/exec.h>
  63 #include <sys/syscall.h>
  64 #include <sys/reboot.h>
  65 #include <sys/task.h>
  66 #include <sys/exacct.h>
  67 #include <sys/autoconf.h>
  68 #include <sys/errorq.h>
  69 #include <sys/class.h>
  70 #include <sys/stack.h>
  71 #include <sys/brand.h>
  72 #include <sys/mmapobj.h>

  74 #include <vm/as.h>
  75 #include <vm/seg_kmem.h>
  76 #include <sys/dc_ki.h>

  78 #include <c2/audit.h>
  79 #include <sys/bootprops.h>

  81 /* well known processes */
  82 proc_t *proc_sched;                     /* memory scheduler */
  83 proc_t *proc_init;                      /* init */
  84 proc_t *proc_pageout;                   /* pageout daemon */
  85 proc_t *proc_fsflush;                   /* fsflush daemon */
  86 proc_t *proc_intrd;                     /* interrupt daemon */
  87 #endif /* ! codereview */

  89 pgcnt_t maxmem;          /* Maximum available memory in pages.   */
  90 pgcnt_t freemem;         /* Current available memory in pages.   */
  91 int     interrupts_unleashed;   /* set when we do the first spl0() */

  93 kmem_cache_t *process_cache;     /* kmem cache for proc structures */

  95 /*
  96  * Indicates whether the auditing module (c2audit) is loaded. Possible
  97  * values are:
  98  * 0 - c2audit module is excluded in /etc/system and cannot be loaded
  99  * 1 - c2audit module is not loaded but can be anytime
 100  * 2 - c2audit module is loaded
 101  */
 102 int audit_active = C2AUDIT_DISABLED;

 104 /*
 105  * Process 0's lwp directory and lwpid hash table.
 106  */
 107 lwpdir_t p0_lwpdir[2];
 108 tidhash_t p0_tidhash[2];
 109 lwpent_t p0_lep;

 111 /*
 112  * Machine-independent initialization code
 113  * Called from cold start routine as
 114  * soon as a stack and segmentation
 115  * have been established.
 116  * Functions:
 117  *      clear and free user core
 118  *      turn on clock
 119  *      hand craft 0th process
 120  *      call all initialization routines
 121  *      fork    - process 0 to schedule
 122  *              - process 1 execute bootstrap
 123  *              - process 2 to page out
 124  *      create system threads
 125  */

 127 int cluster_bootflags = 0;
```

```
 129 void
 130 cluster_wrapper(void)
 131 {
 132         cluster();
 133         panic("cluster()  returned");
 134 }

 136 char initname[INITNAME_SZ] = "/sbin/init";      /* also referenced by zone0 */
 137 char initargs[BOOTARGS_MAX] = "";               /* also referenced by zone0 */

 139 /*
 140  * Construct a stack for init containing the arguments to it, then
 141  * pass control to exec_common.
 142  */
 143 int
 144 exec_init(const char *initpath, const char *args)
 145 {
 146         caddr32_t ucp;
 147         caddr32_t *uap;
 148         caddr32_t *argv;
 149         caddr32_t exec_fnamep;
 150         char *scratchargs;
 151         int i, sarg;
 152         size_t argvlen, alen;
 153         boolean_t in_arg;
 154         int argc = 0;
 155         int error = 0, count = 0;
 156         proc_t *p = ttoproc(curthread);
 157         klwp_t *lwp = ttolwp(curthread);
 158         int brand_action;

 160         if (args == NULL)
 161                 args = "";

 163         alen = strlen(initpath) + 1 + strlen(args) + 1;
 164         scratchargs = kmem_alloc(alen, KM_SLEEP);
 165         (void) snprintf(scratchargs, alen, "%s %s", initpath, args);

 167         /*
 168          * We do a quick two state parse of the string to sort out how big
 169          * argc should be.
 170          */
 171         in_arg = B_FALSE;
 172         for (i = 0; i < strlen(scratchargs); i++) {
 173                 if (scratchargs[i] == ' ' || scratchargs[i] == '\0') {
 174                         if (in_arg) {
 175                                 in_arg = B_FALSE;
 176                                 argc++;
 177                         }
 178                 } else {
 179                         in_arg = B_TRUE;
 180                 }
 181         }
 182         argvlen = sizeof (caddr32_t) * (argc + 1);
 183         argv = kmem_zalloc(argvlen, KM_SLEEP);

 185         /*
 186          * We pull off a bit of a hack here.  We work our way through the
 187          * args string, putting nulls at the ends of space delimited tokens
 188          * (boot args don't support quoting at this time).  Then we just
 189          * copy the whole mess to userland in one go.  In other words, we
 190          * transform this: "init -s -r\0" into this on the stack:
 191          *
 192          *      -0x00 \0
 193          *      -0x01 r
```

```
 194         *      -0x02 -  <--------.
 195         *      -0x03 \0                  |
 196         *      -0x04 s                   |
 197         *      -0x05 -  <------.         |
 198         *      -0x06 \0        |         |
 199         *      -0x07 t         |         |
 200         *      -0x08 i         |         |
 201         *      -0x09 n         |         |
 202         *      -0x0a i  <---.  |         |
 203         *      -0x10 NULL   |  |         |      (argv[3])
 204         *      -0x14  -----|--|-'        (argv[2])
 205         *      -0x18  ------|--'         (argv[1])
 206         *      -0x1c -------'            (argv[0])
 207         *
 208         * Since we know the value of ucp at the beginning of this process,
 209         * we can trivially compute the argv[] array which we also need to
 210         * place in userland: argv[i] = ucp - sarg(i), where ucp is the
 211         * stack ptr, and sarg is the string index of the start of the
 212         * argument.
 213         */
 214        ucp = (caddr32_t)(uintptr_t)p->p_usrstack;

 216        argc = 0;
 217        in_arg = B_FALSE;
 218        sarg = 0;

 220        for (i = 0; i < alen; i++) {
 221                if (scratchargs[i] == ' ' || scratchargs[i] == '\0') {
 222                        if (in_arg == B_TRUE) {
 223                                in_arg = B_FALSE;
 224                                scratchargs[i] = '\0';
 225                                argv[argc++] = ucp - (alen - sarg);
 226                        }
 227                } else if (in_arg == B_FALSE) {
 228                        in_arg = B_TRUE;
 229                        sarg = i;
 230                }
 231        }
 232        ucp -= alen;
 233        error |= copyout(scratchargs, (caddr_t)(uintptr_t)ucp, alen);

 235        uap = (caddr32_t *)P2ALIGN((uintptr_t)ucp, sizeof (caddr32_t));
 236        uap--;  /* advance to be below the word we're in */
 237        uap -= (argc + 1);      /* advance argc words down, plus one for NULL */
 238        error |= copyout(argv, uap, argvlen);

 240        if (error != 0) {
 241                zcmn_err(p->p_zone->zone_id, CE_WARN,
 242                    "Could not construct stack for init.\n");
 243                kmem_free(argv, argvlen);
 244                kmem_free(scratchargs, alen);
 245                return (EFAULT);
 246        }

 248        exec_fnamep = argv[0];
 249        kmem_free(argv, argvlen);
 250        kmem_free(scratchargs, alen);

 252        /*
 253         * Point at the arguments.
 254         */
 255        lwp->lwp_ap = lwp->lwp_arg;
 256        lwp->lwp_arg[0] = (uintptr_t)exec_fnamep;
 257        lwp->lwp_arg[1] = (uintptr_t)uap;
 258        lwp->lwp_arg[2] = NULL;
 259        curthread->t_post_sys = 1;
```

```
260             curthread->t_sysnum = SYS_execve;

262             /*
263              * If we are executing init from zsched, we may have inherited its
264              * parent process's signal mask.  Clear it now so that we behave in
265              * the same way as when started from the global zone.
266              */
267             sigemptyset(&curthread->t_hold);

269             brand_action = ZONE_IS_BRANDED(p->p_zone) ? EBA_BRAND : EBA_NONE;
270     again:
271             error = exec_common((const char *)(uintptr_t)exec_fnamep,
272                 (const char **)(uintptr_t)uap, NULL, brand_action);

274             /*
275              * Normally we would just set lwp_argsaved and t_post_sys and
276              * let post_syscall reset lwp_ap for us.  Unfortunately,
277              * exec_init isn't always called from a system call.  Instead
278              * of making a mess of trap_cleanup, we just reset the args
279              * pointer here.
280              */
281             reset_syscall_args();

283             switch (error) {
284             case 0:
285                     return (0);

287             case ENOENT:
288                     zcmn_err(p->p_zone->zone_id, CE_WARN,
289                         "exec(%s) failed (file not found).\n", initpath);
290                     return (ENOENT);

292             case EAGAIN:
293             case EINTR:
294                     ++count;
295                     if (count < 5) {
296                             zcmn_err(p->p_zone->zone_id, CE_WARN,
297                                 "exec(%s) failed with errno %d.  Retrying...\n",
298                                 initpath, error);
299                             goto again;
300                     }
301             }

303             zcmn_err(p->p_zone->zone_id, CE_WARN,
304                 "exec(%s) failed with errno %d.", initpath, error);
305             return (error);
306     }

308     /*
309      * This routine does all of the common setup for invoking init; global
310      * and non-global zones employ this routine for the functionality which is
311      * in common.
312      *
313      * This program (init, presumably) must be a 32-bit process.
314      */
315     int
316     start_init_common()
317     {
318             proc_t *p = curproc;
319             ASSERT_STACK_ALIGNED();
320             p->p_zone->zone_proc_initpid = p->p_pid;

322             p->p_cstime = p->p_stime = p->p_cutime = p->p_utime = 0;
323             p->p_usrstack = (caddr_t)USRSTACK32;
324             p->p_model = DATAMODEL_ILP32;
325             p->p_stkprot = PROT_ZFOD & ~PROT_EXEC;
```

```
326             p->p_datprot = PROT_ZFOD & ~PROT_EXEC;
327             p->p_stk_ctl = INT32_MAX;

329             p->p_as = as_alloc();
330             p->p_as->a_proc = p;
331             p->p_as->a_userlimit = (caddr_t)USERLIMIT32;
332             (void) hat_setup(p->p_as->a_hat, HAT_INIT);

334             init_core();

336             init_mstate(curthread, LMS_SYSTEM);
337             return (exec_init(p->p_zone->zone_initname, p->p_zone->zone_bootargs));
338     }

340     /*
341      * Start the initial user process for the global zone; once running, if
342      * init should subsequently fail, it will be automatically be caught in the
343      * exit(2) path, and restarted by restart_init().
344      */
345     static void
346     start_init(void)
347     {
348             proc_init = curproc;

350             ASSERT(curproc->p_zone->zone_initname != NULL);

352             if (start_init_common() != 0)
353                     halt("unix: Could not start init");
354             lwp_rtt();
355     }

357     void
358     main(void)
359     {
360             proc_t          *p = ttoproc(curthread);        /* &p0 */
361             int             (**initptr)();
362             extern void     sched();
363             extern void     fsflush();
364             extern void     intrd();
365     #endif /* ! codereview */
366             extern int      (*init_tbl[])();
367             extern int      (*mp_init_tbl[])();
368             extern id_t     syscid, defaultcid;
369             extern int      swaploaded;
370             extern int      netboot;
371             extern ib_boot_prop_t *iscsiboot_prop;
372             extern void     vm_init(void);
373             extern void     cbe_init_pre(void);
374             extern void     cbe_init(void);
375             extern void     clock_tick_init_pre(void);
376             extern void     clock_tick_init_post(void);
377             extern void     clock_init(void);
378             extern void     physio_bufs_init(void);
379             extern void     pm_cfb_setup_intr(void);
380             extern int      pm_adjust_timestamps(dev_info_t *, void *);
381             extern void     start_other_cpus(int);
382             extern void     sysevent_evc_thrinit();
383             extern kmutex_t ualock;
384     #if defined(__x86)
385             extern void     fastboot_post_startup(void);
386             extern void     progressbar_start(void);
387     #endif
388             /*
389              * In the horrible world of x86 in-lines, you can't get symbolic
390              * structure offsets a la genassym.  This assertion is here so
391              * that the next poor slob who innocently changes the offset of
```

```
392             * cpu_thread doesn't waste as much time as I just did finding
393             * out that it's hard-coded in i86/ml/i86.il.  Similarly for
394             * curcpup.  You're welcome.
395             */
396            ASSERT(CPU == CPU->cpu_self);
397            ASSERT(curthread == CPU->cpu_thread);
398            ASSERT_STACK_ALIGNED();

400            /*
401             * We take the ualock until we have completed the startup
402             * to prevent kadmin() from disrupting this work. In particular,
403             * we don't want kadmin() to bring the system down while we are
404             * trying to start it up.
405             */
406            mutex_enter(&ualock);

408            /*
409             * Setup root lgroup and leaf lgroup for CPU 0
410             */
411            lgrp_init(LGRP_INIT_STAGE2);

413            /*
414             * Once 'startup()' completes, the thread_reaper() daemon would be
415             * created(in thread_init()). After that, it is safe to create threads
416             * that could exit. These exited threads will get reaped.
417             */
418            startup();
419            segkmem_gc();
420            callb_init();
421            cbe_init_pre(); /* x86 must initialize gethrtimef before timer_init */
422            timer_init();    /* timer must be initialized before cyclic starts */
423            cbe_init();
424            callout_init(); /* callout table MUST be init'd after cyclics */
425            clock_tick_init_pre();
426            clock_init();

428 #if defined(__x86)
429            /*
430             * The progressbar thread uses cv_reltimedwait() and hence needs to be
431             * started after the callout mechanism has been initialized.
432             */
433            progressbar_start();
434 #endif
435            /*
436             * On some platforms, clkinitf() changes the timing source that
437             * gethrtime_unscaled() uses to generate timestamps.  cbe_init() calls
438             * clkinitf(), so re-initialize the microstate counters after the
439             * timesource has been chosen.
440             */
441            init_mstate(&t0, LMS_SYSTEM);
442            init_cpu_mstate(CPU, CMS_SYSTEM);

444            /*
445             * May need to probe to determine latencies from CPU 0 after
446             * gethrtime() comes alive in cbe_init() and before enabling interrupts
447             * and copy and release any temporary memory allocated with BOP_ALLOC()
448             * before release_bootstrap() frees boot memory
449             */
450            lgrp_init(LGRP_INIT_STAGE3);

452            /*
453             * Call all system initialization functions.
454             */
455            for (initptr = &init_tbl[0]; *initptr; initptr++)
456                    (**initptr)();
457            /*
```

```
458             * Load iSCSI boot properties
459             */
460            ld_ib_prop();
461            /*
462             * initialize vm related stuff.
463             */
464            vm_init();

466            /*
467             * initialize buffer pool for raw I/O requests
468             */
469            physio_bufs_init();

471            ttolwp(curthread)->lwp_error = 0; /* XXX kludge for SCSI driver */

473            /*
474             * Drop the interrupt level and allow interrupts.  At this point
475             * the DDI guarantees that interrupts are enabled.
476             */
477            (void) spl0();
478            interrupts_unleashed = 1;

480            /*
481             * Create kmem cache for proc structures
482             */
483            process_cache = kmem_cache_create("process_cache", sizeof (proc_t),
484                    0, NULL, NULL, NULL, NULL, NULL, 0);

486            vfs_mountroot();         /* Mount the root file system */
487            errorq_init();           /* after vfs_mountroot() so DDI root is ready */
488            cpu_kstat_init(CPU);     /* after vfs_mountroot() so TOD is valid */
489            ddi_walk_devs(ddi_root_node(), pm_adjust_timestamps, NULL);
490                                     /* after vfs_mountroot() so hrestime is valid */

492            post_startup();
493            swaploaded = 1;

495            /*
496             * Initialize Solaris Audit Subsystem
497             */
498            audit_init();

500            /*
501             * Plumb the protocol modules and drivers only if we are not
502             * networked booted, in this case we already did it in rootconf().
503             */
504            if (netboot == 0 && iscsiboot_prop == NULL)
505                    (void) strplumb();

507            gethrestime(&PTOU(curproc)->u_start);
508            curthread->t_start = PTOU(curproc)->u_start.tv_sec;
509            p->p_mstart = gethrtime();

511            /*
512             * Perform setup functions that can only be done after root
513             * and swap have been set up.
514             */
515            consconfig();
516 #ifndef __sparc
517            release_bootstrap();
518 #endif

520            /*
521             * attach drivers with ddi-forceattach prop
522             * It must be done early enough to load hotplug drivers (e.g.
523             * pcmcia nexus) so that devices enumerated via hotplug is
```

```
524             * available before I/O subsystem is fully initialized.
525             */
526            i_ddi_forceattach_drivers();

528            /*
529             * Set the scan rate and other parameters of the paging subsystem.
530             */
531            setupclock(0);

533            /*
534             * Initialize process 0's lwp directory and lwpid hash table.
535             */
536            p->p_lwpdir = p->p_lwpfree = p0_lwpdir;
537            p->p_lwpdir->ld_next = p->p_lwpdir + 1;
538            p->p_lwpdir_sz = 2;
539            p->p_tidhash = p0_tidhash;
540            p->p_tidhash_sz = 2;
541            p0_lep.le_thread = curthread;
542            p0_lep.le_lwpid = curthread->t_tid;
543            p0_lep.le_start = curthread->t_start;
544            lwp_hash_in(p, &p0_lep, p0_tidhash, 2, 0);

546            /*
547             * Initialize extended accounting.
548             */
549            exacct_init();

551            /*
552             * Initialize threads of sysevent event channels
553             */
554            sysevent_evc_thrinit();

556            /*
557             * This must be done after post_startup() but before
558             * start_other_cpus()
559             */
560            lgrp_init(LGRP_INIT_STAGE4);

562            /*
563             * Perform MP initialization, if any.
564             */
565            start_other_cpus(0);

567 #ifdef    __sparc
568            /*
569             * Release bootstrap here since PROM interfaces are
570             * used to start other CPUs above.
571             */
572            release_bootstrap();
573 #endif

575            /*
576             * Finish lgrp initialization after all CPUS are brought online.
577             */
578            lgrp_init(LGRP_INIT_STAGE5);

580            /*
581             * After mp_init(), number of cpus are known (this is
582             * true for the time being, when there are actually
583             * hot pluggable cpus then this scheme  would not do).
584             * Any per cpu initialization is done here.
585             */
586            kmem_mp_init();
587            vmem_update(NULL);

589            clock_tick_init_post();
```

```
591            for (initptr = &mp_init_tbl[0]; *initptr; initptr++)
592                    (**initptr)();

594            /*
595             * These must be called after start_other_cpus
596             */
597            pm_cfb_setup_intr();
598 #if defined(__x86)
599            fastboot_post_startup();
600 #endif

602            /*
603             * Make init process; enter scheduling loop with system process.
604             *
605             * Note that we manually assign the pids for these processes, for
606             * historical reasons.  If more pre-assigned pids are needed, for
607             * FAMOUS_PIDS will have to be updated.
608             */

610            /* create init process */
611            if (newproc(start_init, NULL, defaultcid, 59, NULL,
612                FAMOUS_PID_INIT))
613                    panic("main: unable to fork init.");

615            /* create pageout daemon */
616            if (newproc(pageout, NULL, syscid, maxclsyspri - 1, NULL,
617                FAMOUS_PID_PAGEOUT))
618                    panic("main: unable to fork pageout()");

620            /* create fsflush daemon */
621            if (newproc(fsflush, NULL, syscid, minclsyspri, NULL,
622                FAMOUS_PID_FSFLUSH))
623                    panic("main: unable to fork fsflush()");

625            /* create interrupt balancer daemon */
626            if (newproc(intrd, NULL, syscid, minclsyspri, NULL, 0))
627                    panic("main: unable to fork intrd()");

629 #endif /* ! codereview */
630            /* create cluster process if we're a member of one */
631            if (cluster_bootflags & CLUSTER_BOOTED) {
632                    if (newproc(cluster_wrapper, NULL, syscid, minclsyspri,
633                        NULL, 0)) {
634                            panic("main: unable to fork cluster()");
635                    }
636            }

638            /*
639             * Create system threads (threads are associated with p0)
640             */

642            /* create module uninstall daemon */
643            /* BugID 1132273. If swapping over NFS need a bigger stack */
644            (void) thread_create(NULL, 0, (void (*)())mod_uninstall_daemon,
645                NULL, 0, &p0, TS_RUN, minclsyspri);

647            (void) thread_create(NULL, 0, seg_pasync_thread,
648                NULL, 0, &p0, TS_RUN, minclsyspri);

650            pid_setmin();

652            /* system is now ready */
653            mutex_exit(&ualock);

655            bcopy("sched", PTOU(curproc)->u_psargs, 6);
```

```
656            bcopy("sched", PTOU(curproc)->u_comm, 5);
657            sched();
658            /* NOTREACHED */
659 }
```

```
**********************************************************
    5225 Thu Jul 25 14:31:04 2013
new/usr/src/uts/common/sys/uadmin.h
XXX Rearchitect and replace interrupt distribution
**********************************************************
   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.
   7  *
   8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
   9  * or http://www.opensolaris.org/os/licensing.
  10  * See the License for the specific language governing permissions
  11  * and limitations under the License.
  12  *
  13  * When distributing Covered Code, include this CDDL HEADER in each
  14  * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
  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 /*
  22  * Copyright 2009 Sun Microsystems, Inc.  All rights reserved.
  23  * Use is subject to license terms.
  24  */

  26 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
  27 /*        All Rights Reserved   */


  30 #ifndef _SYS_UADMIN_H
  31 #define _SYS_UADMIN_H


  34 #if !defined(_ASM)
  35 #include <sys/types.h>
  36 #include <sys/cred.h>
  37 #endif

  39 #ifdef   __cplusplus
  40 extern "C" {
  41 #endif

  43 #define A_REBOOT       1
  44 #define A_SHUTDOWN     2
  45 #define A_FREEZE       3        /* For freeze and thaw */
  46 #define A_REMOUNT      4
  47 #define A_DUMP         5
  48 #define A_FTRACE       15
  49 #define A_SWAPCTL      16
  50 /*            17-21          reserved for obsolete interface */
  51 #define A_SDTTEST      22       /* DTrace sdt:::test */
  52 #define A_CONFIG       23       /* For system configuration */
  53 #define A_INTRD        24       /* Interrupt balancer */
  54 #endif /* ! codereview */

  56 #define AD_UNKNOWN     -1       /* no method */
  57 #define AD_HALT        0        /* halt the processor */
  58 #define AD_BOOT        1        /* multi-user reboot */
  59 #define AD_IBOOT       2        /* multi-user reboot, ask for name of file */
  60 #define AD_SBOOT       3        /* single-user reboot */
  61 #define AD_SIBOOT      4        /* single-user reboot, ask for name of file */
```

```
  62 #define AD_POWEROFF    6        /* software poweroff */
  63 #define AD_NOSYNC      7        /* do not sync filesystems on next A_DUMP */
  64 #define AD_FASTREBOOT  8        /* bypass firmware and boot loader */
  65 #define AD_FASTREBOOT_DRYRUN   9        /* Fast reboot Dry run */

  67 /*
  68  * Functions reserved for A_FREEZE (may not be available on all platforms)
  69  * Note:  AD_COMPRESS, AD_CHECK and AD_FORCE are now obsolete
  70  *      The first two are succeeded by AD_SUSPEND_TO_DISK and
  71  *          AD_CHECK_SUSPEND_TO_DISK respectively.
  72  *      AD_FORCE should not be used by any new application
  73  *
  74  *      We maintain compatibility with the earlier interfaces:
  75  *      AD_COMPRESS and AD_CHECK, by preserving those values
  76  *      in the corresponding new interfaces
  77  */

  79 #define AD_COMPRESS    0        /* store state file compressed during CPR */
  80 #define AD_FORCE       1        /* force to do AD_COMPRESS */
  81 #define AD_CHECK       2        /* test if CPR module is available */
  82 #define AD_SUSPEND_TO_DISK         AD_COMPRESS /* A_FREEZE, CPR or ACPI S4 */
  83 #define AD_CHECK_SUSPEND_TO_DISK   AD_CHECK    /* A_FREEZE, CPR/S4 capable? */
  84 #define AD_SUSPEND_TO_RAM          20          /* A_FREEZE, S3 */
  85 #define AD_CHECK_SUSPEND_TO_RAM    21          /* A_FREEZE, S3 capable? */

  87 /*
  88  * NOTE: the following defines comprise an Unstable interface.  Their semantics
  89  * may change or they may be removed completely in a later release
  90  */
  91 #define AD_REUSEINIT   3        /* prepare for AD_REUSABLE */
  92 #define AD_REUSABLE    4        /* create reusable statefile */
  93 #define AD_REUSEFINI   5        /* revert to normal CPR mode (not reusable) */

  95 #define AD_FTRACE_START 1
  96 #define AD_FTRACE_STOP  2

  98 /*
  99  * Functions of A_CONFIG.  Unstable interface.
 100  */
 101 #define AD_UPDATE_BOOT_CONFIG   1        /* Update boot config variables */

 103 /*
 104  * When 'mdep' (the second argument to uadmin(2)) is initialized for A_REBOOT,
 105  * A_SHUTDOWN or A_DUMP, it represents the boot arguments string of at most
 106  * 256 characters.
 107  */
 108 #define BOOTARGS_MAX    256

 110 #if !defined(_KERNEL)
 111 /*
 112  * FMRI for boot-config service.
 113  */
 114 #define FMRI_BOOT_CONFIG \
 115         "svc:/system/boot-config:default"

 117 /*
 118  * Property group that contains all Fast Reboot configuration properties.
 119  */
 120 #define BOOT_CONFIG_PG_PARAMS           "config"

 122 /*
 123  * Property group that contains all Fast Reboot blacklisting information.
 124  */
 125 #define BOOT_CONFIG_PG_FBBLACKLIST      "fastreboot_blacklist"

 127 /*
```

```
 128   * Non-persistent property group which contains all the properties that
 129   * will override settings in the BOOT_CONFIG_PG_PARAMS property group.
 130   */
 131  #define BOOT_CONFIG_PG_OVR              "config_ovr"

 133  #endif  /* _KERNEL */

 135  /*
 136   * Flag representations of fastboot configuration.
 137   */
 138  #define UA_FASTREBOOT_DEFAULT   0x01
 139  #define UA_FASTREBOOT_ONPANIC   0x02

 141  #define FASTREBOOT_DEFAULT               "fastreboot_default"
 142  #define FASTREBOOT_ONPANIC               "fastreboot_onpanic"
 143  #define FASTREBOOT_ONPANIC_CMDLINE       "fastreboot_onpanic_cmdline"

 145  #define FASTREBOOT_ONPANIC_NOTSET(p)     \
 146          (strcmp((p), "false") == 0 ||    \
 147          strcmp((p), "no") == 0 ||        \
 148          strcmp((p), "0") == 0)

 150  #define FASTREBOOT_ONPANIC_ISSET(p)      \
 151          (strcmp((p), "true") == 0 ||     \
 152          strcmp((p), "yes") == 0 ||       \
 153          strcmp((p), "1") == 0)

 155  #if !defined(_ASM)

 157  #if defined(_KERNEL)
 158  extern kmutex_t ualock;
 159  extern void mdboot(int, int, char *, boolean_t);
 160  extern void mdpreboot(int, int, char *);
 161  extern int kadmin(int, int, void *, cred_t *);
 162  extern void killall(zoneid_t);
 163  #endif

 165  #if defined(__STDC__)
 166  extern int uadmin(int, int, uintptr_t);
 167  #else
 168  extern int uadmin();
 169  #endif

 171  #endif  /* _ASM */

 173  #ifdef  __cplusplus
 174  }
 175  #endif

 177  #endif  /* _SYS_UADMIN_H */
```