```
**********************************************************
     993 Tue Jul 15 19:41:37 2014
new/usr/src/cmd/man/Makefile
Add catman, makewhatis functionality.  Print an error if the whatis database
is missing.
**********************************************************
   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 2012 Nexenta Systems, Inc. All rights reserved.
  14 #

  16 PROG=           man
  17 LINKS=          apropos whatis catman
  18 LIBLINKS =      makewhatis
  17 LINKS=          apropos whatis
  19 OBJS=           makewhatis.o man.o stringlist.o
  20 SRCS=           $(OBJS:%.o=%.c)

  22 include         $(SRC)/cmd/Makefile.cmd

  24 CFLAGS +=       $(CCVERBOSE)

  26 ROOTLINKS=      $(LINKS:%=$(ROOTBIN)/%) $(LIBLINKS:%=$(ROOTLIB)/%)
  25 ROOTLINKS=      $(LINKS:%=$(ROOTBIN)/%)

  28 .KEEP_STATE :

  30 all:            $(PROG)

  32 clean:
  33                 $(RM) $(OBJS)

  35 install:        all $(ROOTPROG) $(ROOTLINKS)

  37 lint:           lint_SRCS

  39 $(PROG):        $(OBJS)
  40                 $(LINK.c) $(OBJS) -o $@ $(LDLIBS)
  41                 $(POST_PROCESS)

  43 $(ROOTLINKS):   $(ROOTPROG)
  44                 $(RM) $@; $(LN) $(ROOTPROG) $@

  46 include         $(SRC)/cmd/Makefile.targ
```

```
**********************************************************
   33672 Tue Jul 15 19:41:38 2014
new/usr/src/cmd/man/man.c
Add catman, makewhatis functionality.  Print an error if the whatis database
is missing.
**********************************************************
______unchanged_portion_omitted_

 152 static int      all = 0;
 153 static int      apropos = 0;
 154 static int      debug = 0;
 155 static int      found = 0;
 156 static int      list = 0;
 157 static int      makewhatis = 0;
 158 static int      printmp = 0;
 159 static int      sargs = 0;
 160 static int      psoutput = 0;
 161 static int      whatis = 0;
 162 static int      makewhatishere = 0;

 164 static char     *mansec;
 165 static char     *pager;

 167 static char     *addlocale(char *);
 168 static struct man_node *build_manpath(char **, int);
 169 static void     do_makewhatis(struct man_node *);
 170 static char     *check_config(char *);
 171 static int      cmp(const void *, const void *);
 172 static int      dupcheck(struct man_node *, struct dupnode **);
 173 static int      format(char *, char *, char *, char *);
 174 static void     free_dupnode(struct dupnode *);
 175 static void     free_manp(struct man_node *manp);
 176 static void     freev(char **);
 177 static void     fullpaths(struct man_node **);
 178 static void     get_all_sect(struct man_node *);
 179 static int      getdirs(char *, char ***, int);
 180 static void     getpath(struct man_node *, char **);
 181 static void     getsect(struct man_node *, char **);
 182 static void     init_bintoman(void);
 183 static void     lower(char *);
 184 static void     mandir(char **, char *, char *, int);
 185 static int      manual(struct man_node *, char *);
 186 static char     *map_section(char *, char *);
 187 static char     *path_to_manpath(char *);
 188 static void     print_manpath(struct man_node *);
 189 static void     search_whatis(char *, char *);
 190 static int      searchdir(char *, char *, char *);
 191 static void     sortdir(DIR *, char ***);
 192 static char     **split(char *, char);
 193 static void     usage_man(void);
 194 static void     usage_whatapro(void);
 195 static void     usage_catman(void);
 196 static void     usage_makewhatis(void);
 197 static void     whatapro(struct man_node *, char *);

 199 static char     language[MAXPATHLEN];   /* LC_MESSAGES */
 200 static char     localedir[MAXPATHLEN];  /* locale specific path component */

 202 static char     *newsection = NULL;

 204 static int      manwidth = 0;

 206 extern const char       *__progname;

 208 int
 209 main(int argc, char **argv)
```



```
 210 {
 211         int             c, i;
 212         char            **pathv;
 213         char            *manpath = NULL;
 214         static struct man_node *mandirs = NULL;
 215         int             bmp_flags = 0;
 216         int             ret = 0;
 217         char            *opts;
 218         char            *mwstr;
 219         int             catman = 0;

 221         (void) setlocale(LC_ALL, "");
 222         (void) strcpy(language, setlocale(LC_MESSAGES, (char *)NULL));
 223         if (strcmp("C", language) != 0)
 224                 (void) strlcpy(localedir, language, MAXPATHLEN);

 226 #if !defined(TEXT_DOMAIN)
 227 #define TEXT_DOMAIN "SYS_TEST"
 228 #endif
 229         (void) textdomain(TEXT_DOMAIN);

 231         if (strcmp(__progname, "apropos") == 0) {
 232                 apropos++;
 233                 opts = "M:ds:";
 234         } else if (strcmp(__progname, "whatis") == 0) {
 235                 apropos++;
 236                 whatis++;
 237                 opts = "M:ds:";
 238         } else if (strcmp(__progname, "catman") == 0) {
 239                 catman++;
 240                 makewhatis++;
 241                 opts = "M:w";
 242         } else if (strcmp(__progname, "makewhatis") == 0) {
 243                 makewhatis++;
 244                 makewhatishere++;
 245                 manpath = ".";
 246                 opts = "";
 247         } else {
 248                 opts = "M:adfklps:tw";
 249         }

 251         opterr = 0;
 252         while ((c = getopt(argc, argv, opts)) != -1) {
 253                 switch (c) {
 254                 case 'M':       /* Respecify path for man pages */
 255                         manpath = optarg;
 256                         break;
 257                 case 'a':
 258                         all++;
 259                         break;
 260                 case 'd':
 261                         debug++;
 262                         break;
 263                 case 'f':
 264                         whatis++;
 265                         /*FALLTHROUGH*/
 266                 case 'k':
 267                         apropos++;
 268                         break;
 269                 case 'l':
 270                         list++;
 271                         /*FALLTHROUGH*/
 272                 case 'p':
 273                         printmp++;
 274                         break;
 275                 case 's':
```

```
276                         mansec = optarg;
277                         sargs++;
278                         break;
279                 case 't':
280                         psoutput++;
281                         break;
282                 case 'w':
283                         makewhatis++;
284                         break;
285                 case '?':
286                 default:
287                         if (apropos)
288                                 usage_whatapro();
289                         else if (catman)
290                                 usage_catman();
291                         else if (makewhatishere)
292                                 usage_makewhatis();
293                         else
294                                 usage_man();
295                 }
296         }
297         argc -= optind;
298         argv += optind;

300         if (argc == 0) {
301                 if (apropos) {
302                         (void) fprintf(stderr, gettext("%s what?\n"),
303                             __progname);
304                         exit(1);
305                 } else if (!printmp && !makewhatis) {
306                         (void) fprintf(stderr,
307                             gettext("What manual page do you want?\n"));
308                         exit(1);
309                 }
310         }

312         init_bintoman();
313         if (manpath == NULL && (manpath = getenv("MANPATH")) == NULL) {
314                 if ((manpath = getenv("PATH")) != NULL)
315                         bmp_flags = BMP_ISPATH | BMP_APPEND_DEFMANDIR;
316                 else
317                         manpath = DEFMANDIR;
318         }
319         pathv = split(manpath, ':');
320         mandirs = build_manpath(pathv, bmp_flags);
321         freev(pathv);
322         fullpaths(&mandirs);

324         if (makewhatis) {
325                 do_makewhatis(mandirs);
326                 exit(0);
327         }

329         if (printmp) {
330                 print_manpath(mandirs);
331                 exit(0);
332         }

334         /* Collect environment information */
335         if (isatty(STDOUT_FILENO) && (mwstr = getenv("MANWIDTH")) != NULL &&
336             *mwstr != '\0') {
337                 if (strcasecmp(mwstr, "tty") == 0) {
338                         struct winsize  ws;

340                         if (ioctl(0, TIOCGWINSZ, &ws) != 0)
341                                 warn("TIOCGWINSZ");
```



```
342                         else
343                                 manwidth = ws.ws_col;
344                 } else {
345                         manwidth = (int)strtol(mwstr, (char **)NULL, 10);
346                         if (manwidth < 0)
347                                 manwidth = 0;
348                 }
349         }
350         if (manwidth != 0) {
351                 DPRINTF("-- Using non-standard page width: %d\n", manwidth);
352         }

354         if ((pager = getenv("PAGER")) == NULL || *pager == '\0')
355                 pager = PAGER;
356         DPRINTF("-- Using pager: %s\n", pager);

358         for (i = 0; i < argc; i++) {
359                 char            *cmd;
360                 static struct man_node *mp;
361                 char            *pv[2];

363                 /*
364                  * If full path to command specified, customize
365                  * the manpath accordingly.
366                  */
367                 if ((cmd = strrchr(argv[i], '/')) != NULL) {
368                         *cmd = '\0';
369                         if ((pv[0] = strdup(argv[i])) == NULL)
370                                 err(1, "strdup");
371                         pv[1] = NULL;
372                         *cmd = '/';
373                         mp = build_manpath(pv,
374                             BMP_ISPATH | BMP_FALLBACK_DEFMANDIR);
375                 } else {
376                         mp = mandirs;
377                 }

379                 if (apropos)
380                         whatapro(mp, argv[i]);
381                 else
382                         ret += manual(mp, argv[i]);

384                 if (mp != NULL && mp != mandirs) {
385                         free(pv[0]);
386                         free_manp(mp);
387                 }
388         }

390         return (ret == 0 ? 0 : 1);
391 }
```

_____***unchanged_portion_omitted_***

```
698 static void
699 search_whatis(char *whatpath, char *word)
700 {
701         FILE            *fp;
702         char            *line = NULL;
703         size_t          linecap = 0;
704         char            *pkwd;
705         regex_t         preg;
706         char            **ss = NULL;
707         char            s[MAXNAMELEN];
708         int             i;

710         if ((fp = fopen(whatpath, "r")) == NULL) {
711                 perror(whatpath);
```

```
 693         if ((fp = fopen(whatpath, "r")) == NULL)
 712                 return;
 713         }

 715         DPRINTF("-- Found %s: %s\n", WHATIS, whatpath);

 717         /* Build keyword regex */
 718         if (asprintf(&pkwd, "%s%s%s", (whatis) ? "\\<" : "",
 719             word, (whatis) ? "\\>" : "") == -1)
 720                 err(1, "asprintf");

 722         if (regcomp(&preg, pkwd, REG_BASIC | REG_ICASE | REG_NOSUB) != 0)
 723                 err(1, "regcomp");

 725         if (sargs)
 726                 ss = split(mansec, ',');

 728         while (getline(&line, &linecap, fp) > 0) {
 729                 if (regexec(&preg, line, 0, NULL, 0) == 0) {
 730                         if (sargs) {
 731                                 /* Section-restricted search */
 732                                 for (i = 0; ss[i] != NULL; i++) {
 733                                         (void) snprintf(s, sizeof (s), "(%s)",
 734                                             ss[i]);
 735                                         if (strstr(line, s) != NULL) {
 736                                                 (void) printf("%s", line);
 737                                                 break;
 738                                         }
 739                                 }
 740                         } else {
 741                                 (void) printf("%s", line);
 742                         }
 743                 }
 744         }

 746         if (ss != NULL)
 747                 freev(ss);
 748         free(pkwd);
 749         (void) fclose(fp);
 750 }
```

_____***unchanged_portion_omitted_***

```
1577 static void
1578 usage_whatapro(void)
1579 {

1581         (void) fprintf(stderr, gettext(
1582 "usage: %s [-M path] [-s section] keyword ...\n"),
1583             whatis ? "whatis" : "apropos");

1585         exit(1);
1586 }

1588 static void
1589 usage_catman(void)
1590 {
1591         (void) fprintf(stderr, gettext(
1592 "usage: catman [-M path] [-w]\n"));

1594         exit(1);
1595 }

1597 static void
1598 usage_makewhatis(void)
1599 {
1600         (void) fprintf(stderr, gettext("usage: makewhatis\n"));
```



```
1602         exit(1);
1603 }
```

_____***unchanged_portion_omitted_***

```
**********************************************************
   13202 Tue Jul 15 19:41:38 2014
new/usr/src/man/man1/Makefile
Add catman, makewhatis functionality.  Print an error if the whatis database
is missing.
**********************************************************
   1 #
   2 # This file and its contents are supplied under the terms of the
   3 # Common Development and Distribution License ("CDDL"), version 1.0.
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   6 #
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   8 # source.  A copy of the CDDL is also available via the Internet
   9 # at http://www.illumos.org/license/CDDL.
  10 #

  12 #
  13 # Copyright 2011, Richard Lowe
  14 # Copyright 2013 Nexenta Systems, Inc.  All rights reserved.
  15 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
  16 #

  18 include         $(SRC)/Makefile.master

  20 MANSECT=        1

  22 MANFILES=       acctcom.1                       \
  23                 adb.1                           \
  24                 addbib.1                        \
  25                 alias.1                         \
  26                 allocate.1                      \
  27                 amt.1                           \
  28                 appcert.1                       \
  29                 apptrace.1                      \
  30                 apropos.1                       \
  31                 ar.1                            \
  32                 arch.1                          \
  33                 asa.1                           \
  34                 at.1                            \
  35                 atq.1                           \
  36                 atrm.1                          \
  37                 audioconvert.1                  \
  38                 audioctl.1                      \
  39                 audioplay.1                     \
  40                 audiorecord.1                   \
  41                 audiotest.1                     \
  42                 auths.1                         \
  43                 awk.1                           \
  44                 banner.1                        \
  45                 basename.1                      \
  46                 bc.1                            \
  47                 bdiff.1                         \
  48                 bfs.1                           \
  49                 break.1                         \
  50                 builtin.1                       \
  51                 cal.1                           \
  52                 calendar.1                      \
  53                 cancel.1                        \
  54                 cat.1                           \
  55                 catman.1                        \
  56                 cd.1                            \
  57                 cdrw.1                          \
  58                 checknr.1                       \
  59                 chgrp.1                         \
  60                 chkey.1                         \
```



```
  61                 chmod.1                         \
  62                 chown.1                         \
  63                 ckdate.1                        \
  64                 ckgid.1                         \
  65                 ckint.1                         \
  66                 ckitem.1                        \
  67                 ckkeywd.1                       \
  68                 ckpath.1                        \
  69                 ckrange.1                       \
  70                 ckstr.1                         \
  71                 cksum.1                         \
  72                 cktime.1                        \
  73                 ckuid.1                         \
  74                 ckyorn.1                        \
  75                 clear.1                         \
  76                 cmp.1                           \
  77                 col.1                           \
  78                 comm.1                          \
  79                 command.1                       \
  80                 compress.1                      \
  81                 cp.1                            \
  82                 cpio.1                          \
  83                 cputrack.1                      \
  84                 crle.1                          \
  85                 crontab.1                       \
  86                 crypt.1                         \
  87                 csh.1                           \
  88                 csplit.1                        \
  89                 ctags.1                         \
  90                 ctrun.1                         \
  91                 ctstat.1                        \
  92                 ctwatch.1                       \
  93                 cut.1                           \
  94                 date.1                          \
  95                 dc.1                            \
  96                 deallocate.1                    \
  97                 deroff.1                        \
  98                 dhcpinfo.1                      \
  99                 diff.1                          \
 100                 diff3.1                         \
 101                 diffmk.1                        \
 102                 digest.1                        \
 103                 dircmp.1                        \
 104                 dis.1                           \
 105                 disown.1                        \
 106                 dispgid.1                       \
 107                 dispuid.1                       \
 108                 dos2unix.1                      \
 109                 download.1                      \
 110                 dpost.1                         \
 111                 du.1                            \
 112                 dump.1                          \
 113                 dumpcs.1                        \
 114                 echo.1                          \
 115                 ed.1                            \
 116                 egrep.1                         \
 117                 eject.1                         \
 118                 elfdump.1                       \
 119                 elfedit.1                       \
 120                 elfsign.1                       \
 121                 elfwrap.1                       \
 122                 enable.1                        \
 123                 encrypt.1                       \
 124                 enhance.1                       \
 125                 env.1                           \
 126                 eqn.1                           \
```

```
127                exec.1                  \
128                exit.1                  \
129                expand.1                \
130                expr.1                  \
131                exstr.1                 \
132                factor.1                \
133                fdformat.1              \
134                fgrep.1                 \
135                file.1                  \
136                filesync.1              \
137                find.1                  \
138                finger.1                \
139                fmt.1                   \
140                fmtmsg.1                \
141                fold.1                  \
142                ftp.1                   \
143                ftpcount.1              \
144                ftpwho.1                \
145                gcore.1                 \
146                gencat.1                \
147                genmsg.1                \
148                getconf.1               \
149                getfacl.1               \
150                getlabel.1              \
151                getopt.1                \
152                getoptcvt.1             \
153                getopts.1               \
154                gettext.1               \
155                gettxt.1                \
156                getzonepath.1           \
157                glob.1                  \
158                gprof.1                 \
159                grep.1                  \
160                groups.1                \
161                hash.1                  \
162                head.1                  \
163                history.1               \
164                hostid.1                \
165                hostname.1              \
166                iconv.1                 \
167                indxbib.1               \
168                Intro.1                 \
169                ipcrm.1                 \
170                ipcs.1                  \
171                isainfo.1               \
172                isalist.1               \
173                jobs.1                  \
174                join.1                  \
175                kbd.1                   \
176                kdestroy.1              \
177                keylogin.1              \
178                keylogout.1             \
179                kill.1                  \
180                kinit.1                 \
181                klist.1                 \
182                kmdb.1                  \
183                kmfcfg.1                \
184                kpasswd.1               \
185                krb5-config.1           \
186                ksh93.1                 \
187                ktutil.1                \
188                lari.1                  \
189                last.1                  \
190                lastcomm.1              \
191                ld.1                    \
192                ldap.1                  \
```



```
193                ldapdelete.1            \
194                ldaplist.1              \
195                ldapmodify.1            \
196                ldapmodrdn.1            \
197                ldapsearch.1            \
198                ldd.1                   \
199                ld.so.1.1               \
200                let.1                   \
201                lex.1                   \
202                lgrpinfo.1              \
203                limit.1                 \
204                line.1                  \
205                list_devices.1          \
206                listusers.1             \
207                ln.1                    \
208                loadkeys.1              \
209                locale.1                \
210                localedef.1             \
211                logger.1                \
212                login.1                 \
213                logname.1               \
214                logout.1                \
215                look.1                  \
216                lookbib.1               \
217                lorder.1                \
218                lp.1                    \
219                lpstat.1                \
220                ls.1                    \
221                m4.1                    \
222                mac.1                   \
223                mach.1                  \
224                machid.1                \
225                madv.so.1.1             \
226                mail.1                  \
227                mailcompat.1            \
228                mailq.1                 \
229                mailstats.1             \
230                mailx.1                 \
231                makekey.1               \
232                man.1                   \
233                mandoc.1                \
234                mconnect.1              \
235                mcs.1                   \
236                mdb.1                   \
237                mesg.1                  \
238                mkdir.1                 \
239                mkmsgs.1                \
240                mktemp.1                \
241                moe.1                   \
242                more.1                  \
243                mpss.so.1.1             \
244                msgcc.1                 \
245                msgcpp.1                \
246                msgcvt.1                \
247                msgfmt.1                \
248                msggen.1                \
249                msgget.1                \
250                mt.1                    \
251                mv.1                    \
252                nawk.1                  \
253                nc.1                    \
254                nca.1                   \
255                ncab2clf.1              \
256                ncakmod.1               \
257                newform.1               \
258                newgrp.1                \
```

```
259                     news.1                          \
260                     newtask.1                       \
261                     nice.1                          \
262                     nl.1                            \
263                     nm.1                            \
264                     nohup.1                         \
265                     nroff.1                         \
266                     od.1                            \
267                     on.1                            \
268                     optisa.1                        \
269                     pack.1                          \
270                     pagesize.1                      \
271                     pargs.1                         \
272                     passwd.1                        \
273                     paste.1                         \
274                     pathchk.1                       \
275                     pax.1                           \
276                     pfexec.1                        \
277                     pg.1                            \
278                     pgrep.1                         \
279                     pkginfo.1                       \
280                     pkgmk.1                         \
281                     pkgparam.1                      \
282                     pkgproto.1                      \
283                     pkgtrans.1                      \
284                     pktool.1                        \
285                     plabel.1                        \
286                     plgrp.1                         \
287                     plimit.1                        \
288                     pmadvise.1                      \
289                     pmap.1                          \
290                     postio.1                        \
291                     postprint.1                     \
292                     postreverse.1                   \
293                     ppgsz.1                         \
294                     ppriv.1                         \
295                     pr.1                            \
296                     praliases.1                     \
297                     prctl.1                         \
298                     preap.1                         \
299                     prex.1                          \
300                     print.1                         \
301                     printf.1                        \
302                     priocntl.1                      \
303                     proc.1                          \
304                     prof.1                          \
305                     profiles.1                      \
306                     projects.1                      \
307                     ps.1                            \
308                     ptree.1                         \
309                     pvs.1                           \
310                     pwd.1                           \
311                     ranlib.1                        \
312                     rcapstat.1                      \
313                     rcp.1                           \
314                     rdist.1                         \
315                     read.1                          \
316                     readonly.1                      \
317                     refer.1                         \
318                     regcmp.1                        \
319                     renice.1                        \
320                     rev.1                           \
321                     rlogin.1                        \
322                     rm.1                            \
323                     rmformat.1                      \
324                     rmmount.1                       \
```



```
325                     roffbib.1                       \
326                     roles.1                         \
327                     rpcgen.1                        \
328                     rsh.1                           \
329                     runat.1                         \
330                     rup.1                           \
331                     ruptime.1                       \
332                     rusers.1                        \
333                     rwho.1                          \
334                     sar.1                           \
335                     scp.1                           \
336                     script.1                        \
337                     sdiff.1                         \
338                     sed.1                           \
339                     set.1                           \
340                     setfacl.1                       \
341                     setlabel.1                      \
342                     setpgrp.1                       \
343                     sftp.1                          \
344                     shcomp.1                        \
345                     shell_builtins.1                \
346                     shift.1                         \
347                     size.1                          \
348                     sleep.1                         \
349                     smbutil.1                       \
350                     soelim.1                        \
351                     sort.1                          \
352                     sortbib.1                       \
353                     sotruss.1                       \
354                     spell.1                         \
355                     split.1                         \
356                     srchtxt.1                       \
357                     ssh.1                           \
358                     ssh-add.1                       \
359                     ssh-agent.1                     \
360                     ssh-http-proxy-connect.1        \
361                     ssh-keygen.1                    \
362                     ssh-keyscan.1                   \
363                     ssh-socks5-proxy-connect.1      \
364                     strchg.1                        \
365                     strings.1                       \
366                     strip.1                         \
367                     stty.1                          \
368                     sum.1                           \
369                     suspend.1                       \
370                     svcprop.1                       \
371                     svcs.1                          \
372                     symorder.1                      \
373                     sys-suspend.1                   \
374                     tabs.1                          \
375                     tail.1                          \
376                     talk.1                          \
377                     tar.1                           \
378                     tbl.1                           \
379                     tcopy.1                         \
380                     tee.1                           \
381                     telnet.1                        \
382                     test.1                          \
383                     tftp.1                          \
384                     time.1                          \
385                     times.1                         \
386                     timex.1                         \
387                     tip.1                           \
388                     tnfdump.1                       \
389                     tnfxtract.1                     \
390                     touch.1                         \
```

```
391                 tput.1                          \
392                 tr.1                            \
393                 trap.1                          \
394                 troff.1                         \
395                 true.1                          \
396                 truss.1                         \
397                 tsort.1                         \
398                 tty.1                           \
399                 type.1                          \
400                 typeset.1                       \
401                 ul.1                            \
402                 umask.1                         \
403                 uname.1                         \
404                 unifdef.1                       \
405                 uniq.1                          \
406                 units.1                         \
407                 unix2dos.1                      \
408                 uptime.1                        \
409                 vacation.1                      \
410                 vgrind.1                        \
411                 volcheck.1                      \
412                 volrmmount.1                    \
413                 w.1                             \
414                 wait.1                          \
415                 wc.1                            \
416                 which.1                         \
417                 who.1                           \
418                 whocalls.1                      \
419                 whois.1                         \
420                 write.1                         \
421                 xargs.1                         \
422                 xgettext.1                      \
423                 xstr.1                          \
424                 yacc.1                          \
425                 yes.1                           \
426                 ypcat.1                         \
427                 ypmatch.1                       \
428                 yppasswd.1                      \
429                 ypwhich.1                       \
430                 zlogin.1                        \
431                 zonename.1

433 MANLINKS=       batch.1         \
434                 bg.1            \
435                 case.1          \
436                 chdir.1         \
437                 checkeq.1       \
438                 continue.1      \
439                 decrypt.1       \
440                 dirname.1       \
441                 dirs.1          \
442                 disable.1       \
443                 dumpkeys.1      \
444                 edit.1          \
445                 errange.1       \
446                 errdate.1       \
447                 errgid.1        \
448                 errint.1        \
449                 erritem.1       \
450                 errpath.1       \
451                 errstr.1        \
452                 errtime.1       \
453                 erruid.1        \
454                 erryorn.1       \
455                 eval.1          \
456                 export.1        \
```



```
457                 false.1         \
458                 fc.1            \
459                 fg.1            \
460                 for.1           \
461                 foreach.1       \
462                 function.1      \
463                 goto.1          \
464                 hashcheck.1     \
465                 hashmake.1      \
466                 hashstat.1      \
467                 helpdate.1      \
468                 helpgid.1       \
469                 helpint.1       \
470                 helpitem.1      \
471                 helppath.1      \
472                 helprange.1     \
473                 helpstr.1       \
474                 helptime.1      \
475                 helpuid.1       \
476                 helpyorn.1      \
477                 hist.1          \
478                 i286.1          \
479                 i386.1          \
480                 i486.1          \
481                 i860.1          \
482                 iAPX286.1       \
483                 if.1            \
484                 intro.1         \
485                 jsh.1           \
486                 ksh.1           \
487                 ldapadd.1       \
488                 neqn.1          \
489                 notify.1        \
490                 onintr.1        \
491                 page.1          \
492                 pcat.1          \
493                 pcred.1         \
494                 pdp11.1         \
495                 pfcsh.1         \
496                 pfiles.1        \
497                 pfksh.1         \
498                 pflags.1        \
499                 pfsh.1          \
500                 pkill.1         \
501                 pldd.1          \
502                 popd.1          \
503                 prun.1          \
504                 psig.1          \
505                 pstack.1        \
506                 pstop.1         \
507                 ptime.1         \
508                 pushd.1         \
509                 pwait.1         \
510                 pwdx.1          \
511                 red.1           \
512                 rehash.1        \
513                 remote_shell.1  \
514                 remsh.1         \
515                 repeat.1        \
516                 return.1        \
517                 rksh.1          \
518                 rksh93.1        \
519                 rmail.1         \
520                 rmdir.1         \
521                 rmumount.1      \
522                 select.1        \
```

```
523                 setenv.1        \
524                 settime.1       \
525                 sh.1            \
526                 snca.1          \
527                 source.1        \
528                 sparc.1         \
529                 spellin.1       \
530                 stop.1          \
531                 strconf.1       \
532                 sun.1           \
533                 switch.1        \
534                 u370.1          \
535                 u3b.1           \
536                 u3b15.1         \
537                 u3b2.1          \
538                 u3b5.1          \
539                 ulimit.1        \
540                 unalias.1       \
541                 uncompress.1    \
542                 unexpand.1      \
543                 unhash.1        \
544                 unlimit.1       \
545                 unpack.1        \
546                 unset.1         \
547                 unsetenv.1      \
548                 until.1         \
549                 valdate.1       \
550                 valgid.1        \
551                 valint.1        \
552                 valpath.1       \
553                 valrange.1      \
554                 valstr.1        \
555                 valtime.1       \
556                 valuid.1        \
557                 valyorn.1       \
558                 vax.1           \
559                 vedit.1         \
560                 whatis.1        \
561                 whence.1        \
562                 while.1         \
563                 zcat.1

565 intro.1         := LINKSRC = Intro.1

567 whatis.1        := LINKSRC = apropos.1

569 unalias.1       := LINKSRC = alias.1

571 batch.1         := LINKSRC = at.1

573 dirname.1       := LINKSRC = basename.1

575 continue.1      := LINKSRC = break.1

577 chdir.1         := LINKSRC = cd.1
578 dirs.1          := LINKSRC = cd.1
579 popd.1          := LINKSRC = cd.1
580 pushd.1         := LINKSRC = cd.1

582 errdate.1       := LINKSRC = ckdate.1
583 helpdate.1      := LINKSRC = ckdate.1
584 valdate.1       := LINKSRC = ckdate.1

586 errgid.1        := LINKSRC = ckgid.1
587 helpgid.1       := LINKSRC = ckgid.1
588 valgid.1        := LINKSRC = ckgid.1
```



```
590 errint.1        := LINKSRC = ckint.1
591 helpint.1       := LINKSRC = ckint.1
592 valint.1        := LINKSRC = ckint.1

594 erritem.1       := LINKSRC = ckitem.1
595 helpitem.1      := LINKSRC = ckitem.1

597 errpath.1       := LINKSRC = ckpath.1
598 helppath.1      := LINKSRC = ckpath.1
599 valpath.1       := LINKSRC = ckpath.1

601 errange.1       := LINKSRC = ckrange.1
602 helprange.1     := LINKSRC = ckrange.1
603 valrange.1      := LINKSRC = ckrange.1

605 errstr.1        := LINKSRC = ckstr.1
606 helpstr.1       := LINKSRC = ckstr.1
607 valstr.1        := LINKSRC = ckstr.1

609 errtime.1       := LINKSRC = cktime.1
610 helptime.1      := LINKSRC = cktime.1
611 valtime.1       := LINKSRC = cktime.1

613 erruid.1        := LINKSRC = ckuid.1
614 helpuid.1       := LINKSRC = ckuid.1
615 valuid.1        := LINKSRC = ckuid.1

617 erryorn.1       := LINKSRC = ckyorn.1
618 helpyorn.1      := LINKSRC = ckyorn.1
619 valyorn.1       := LINKSRC = ckyorn.1

621 uncompress.1    := LINKSRC = compress.1
622 zcat.1          := LINKSRC = compress.1

624 red.1           := LINKSRC = ed.1

626 disable.1       := LINKSRC = enable.1

628 decrypt.1       := LINKSRC = encrypt.1

630 checkeq.1       := LINKSRC = eqn.1
631 neqn.1          := LINKSRC = eqn.1

633 eval.1          := LINKSRC = exec.1
634 source.1        := LINKSRC = exec.1

636 goto.1          := LINKSRC = exit.1
637 return.1        := LINKSRC = exit.1

639 unexpand.1      := LINKSRC = expand.1

641 hashstat.1      := LINKSRC = hash.1
642 rehash.1        := LINKSRC = hash.1
643 unhash.1        := LINKSRC = hash.1

645 fc.1            := LINKSRC = history.1
646 hist.1          := LINKSRC = history.1

648 bg.1            := LINKSRC = jobs.1
649 fg.1            := LINKSRC = jobs.1
650 notify.1        := LINKSRC = jobs.1
651 stop.1          := LINKSRC = jobs.1

653 jsh.1           := LINKSRC = ksh93.1
654 ksh.1           := LINKSRC = ksh93.1
```

```
655 rksh.1          := LINKSRC = ksh93.1
656 rksh93.1        := LINKSRC = ksh93.1
657 sh.1            := LINKSRC = ksh93.1

659 ldapadd.1       := LINKSRC = ldapmodify.1

661 ulimit.1        := LINKSRC = limit.1
662 unlimit.1       := LINKSRC = limit.1

664 dumpkeys.1      := LINKSRC = loadkeys.1

666 i286.1          := LINKSRC = machid.1
667 i386.1          := LINKSRC = machid.1
668 i486.1          := LINKSRC = machid.1
669 i860.1          := LINKSRC = machid.1
670 iAPX286.1       := LINKSRC = machid.1
671 pdp11.1         := LINKSRC = machid.1
672 sparc.1         := LINKSRC = machid.1
673 sun.1           := LINKSRC = machid.1
674 u370.1          := LINKSRC = machid.1
675 u3b.1           := LINKSRC = machid.1
676 u3b15.1         := LINKSRC = machid.1
677 u3b2.1          := LINKSRC = machid.1
678 u3b5.1          := LINKSRC = machid.1
679 vax.1           := LINKSRC = machid.1

681 rmail.1         := LINKSRC = mail.1

683 page.1          := LINKSRC = more.1

685 snca.1          := LINKSRC = nca.1

687 pcat.1          := LINKSRC = pack.1
688 unpack.1        := LINKSRC = pack.1

690 pfcsh.1         := LINKSRC = pfexec.1
691 pfksh.1         := LINKSRC = pfexec.1
692 pfsh.1          := LINKSRC = pfexec.1

694 pkill.1         := LINKSRC = pgrep.1

696 pcred.1         := LINKSRC = proc.1
697 pfiles.1        := LINKSRC = proc.1
698 pflags.1        := LINKSRC = proc.1
699 pldd.1          := LINKSRC = proc.1
700 prun.1          := LINKSRC = proc.1
701 psig.1          := LINKSRC = proc.1
702 pstack.1        := LINKSRC = proc.1
703 pstop.1         := LINKSRC = proc.1
704 ptime.1         := LINKSRC = proc.1
705 pwait.1         := LINKSRC = proc.1
706 pwdx.1          := LINKSRC = proc.1

708 rmdir.1         := LINKSRC = rm.1

710 rmumount.1      := LINKSRC = rmmount.1

712 remote_shell.1  := LINKSRC = rsh.1
713 remsh.1         := LINKSRC = rsh.1

715 export.1        := LINKSRC = set.1
716 setenv.1        := LINKSRC = set.1
717 unset.1         := LINKSRC = set.1
718 unsetenv.1      := LINKSRC = set.1

720 case.1          := LINKSRC = shell_builtins.1
```



```
721 for.1           := LINKSRC = shell_builtins.1
722 foreach.1       := LINKSRC = shell_builtins.1
723 function.1      := LINKSRC = shell_builtins.1
724 if.1            := LINKSRC = shell_builtins.1
725 repeat.1        := LINKSRC = shell_builtins.1
726 select.1        := LINKSRC = shell_builtins.1
727 switch.1        := LINKSRC = shell_builtins.1
728 until.1         := LINKSRC = shell_builtins.1
729 while.1         := LINKSRC = shell_builtins.1

731 hashcheck.1     := LINKSRC = spell.1
732 hashmake.1      := LINKSRC = spell.1
733 spellin.1       := LINKSRC = spell.1

735 strconf.1       := LINKSRC = strchg.1

737 settime.1       := LINKSRC = touch.1

739 onintr.1        := LINKSRC = trap.1

741 false.1         := LINKSRC = true.1

743 whence.1        := LINKSRC = typeset.1

745 # Links to usr/has/man

747 edit.1          := LINKSRC = ../../../has/man/man1has/edit.1has

749 vedit.1         := LINKSRC = ../../../has/man/man1has/vi.1has

751 .KEEP_STATE:

753 include         $(SRC)/man/Makefile.man

755 install:        $(ROOTMANFILES) $(ROOTMANLINKS)
```

```
**********************************************************
    1525 Tue Jul 15 19:41:38 2014
new/usr/src/man/man1/catman.1
Add catman, makewhatis functionality.  Print an error if the whatis database
is missing.
**********************************************************
```

```
.\"
.\" This file and its contents are supplied under the terms of the
.\" Common Development and Distribution License ("CDDL"), version 1.0.
.\" You may only use this file in accordance with the terms of version
.\" 1.0 of the CDDL.
.\"
.\" A full copy of the text of the CDDL should have accompanied this
.\" source.  A copy of the CDDL is also available via the Internet at
.\" http://www.illumos.org/license/CDDL.
.\"
.\"
.\" Copyright 2014 Garrett D'Amore <garrett@damore.org>
.\"
.Dd Jul 13, 2014
.Dt CATAMN 1
.Os
.Sh NAME
.Nm catman
.Nd generate
.Nm whatis
database files
.Sh SYNOPSIS
.Nm
.Op Fl M Ar path
.Sh DESCRIPTION
The
.Nm
utility generates a set of
.Nm whatis
database files suitable for use with
.Xr apropos 1
and
.Xr whatis 1 .
It is supplied for compatibility reasons.  The same databases can
be generated using the
.Fl w
option with
.Xr man 1 ,
and that command should be used instead.
.Bl -tag -width ".Fl d"
.It Fl M Ar path
Generate the
.Nm whatis
database files within the specified colon separated manual paths.
Overrides the
.Ev MANPATH
environment variable.
.El
.Sh ENVIRONMENT
The following environment variables affect the execution of
.Nm :
.Bl -tag -width ".Ev MANPATH"
.It Ev MANPATH
Used to specify a colon seperated list of manual paths within
which to generate
.Nm whatis
database files.
.El
.Sh DIAGNOSTICS
The
```



```
.Nm
utility exits 0 on success, and non-zero otherwise.
.Sh INTERFACE STABILITY
Obsolete.
.Sh CODE SET INDEPENDENCE
Enabled.
.Sh SEE ALSO
.Xr apropos 1 ,
.Xr man 1 ,
.Xr whatis 1
```

```
**********************************************************
    2493 Tue Jul 15 19:41:38 2014
new/usr/src/pkg/manifests/system-man.mf
Add catman, makewhatis functionality.  Print an error if the whatis database
is missing.
**********************************************************
```

```
   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 2012 Nexenta Systems, Inc. All rights reserved.
  14 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
  15 #

  17 set name=pkg.fmri value=pkg:/system/man@$(PKGVERS)
  18 set name=pkg.description \
  19     value="utilities for display and formatting of reference manual pages"
  20 set name=pkg.summary value="Reference Manual Pages Tools"
  21 set name=info.classification \
  22     value="org.opensolaris.category.2008:System/Text Tools"
  23 set name=variant.arch value=$(ARCH)
  24 dir path=usr/bin
  25 dir path=usr/lib
  26 dir path=usr/share
  27 dir path=usr/share/man
  28 dir path=usr/share/man/man1
  29 dir path=usr/share/man/man5
  30 file path=usr/bin/catman mode=0555
  31 file path=usr/bin/man mode=0555
  32 file path=usr/bin/mandoc mode=0555
  33 file path=usr/lib/makewhatis mode=0555
  34 file path=usr/lib/mandoc_preconv mode=0555
  35 file path=usr/share/man/man1/apropos.1
  36 file path=usr/share/man/man1/catman.1
  37 file path=usr/share/man/man1/man.1
  38 file path=usr/share/man/man1/mandoc.1
  39 file path=usr/share/man/man5/eqn.5
  40 file path=usr/share/man/man5/man.5
  41 file path=usr/share/man/man5/mandoc_char.5
  42 file path=usr/share/man/man5/mandoc_roff.5
  43 file path=usr/share/man/man5/mdoc.5
  44 file path=usr/share/man/man5/tbl.5
  45 hardlink path=usr/bin/apropos target=../../usr/bin/man
  46 hardlink path=usr/bin/whatis target=../../usr/bin/man
  47 license lic_CDDL license=lic_CDDL
  48 license usr/src/cmd/man/THIRDPARTYLICENSE \
  49     license=usr/src/cmd/man/THIRDPARTYLICENSE
  50 license usr/src/cmd/mandoc/THIRDPARTYLICENSE \
  51     license=usr/src/cmd/mandoc/THIRDPARTYLICENSE
  52 link path=usr/man target=./share/man
  53 link path=usr/share/man/man1/whatis.1 target=apropos.1
  54 # arguably we also need lp, for man -t support, but really we don't
  55 # want to make this mandatory, so we don't express teh dependency here.
  56 # gzcat/bzcat are used for displaying compressed manpages.  However,
  57 # as we don't format such pages this way by default, lets leave the
  58 # dependency out.
  59 #depend fmri=compress/bzip2 type=require
  60 #depend fmri=compress/gzip type=require
```



```
  61 # less is the default (per user environment) pager.  We really should just
  62 # import this into illumos-gate.
  63 depend fmri=text/less type=require
```