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*****
5390 Wed May 20 11:22:24 2015
new/usr/src/cmd/make/bin/globals.cc
make: fix GCC warnings
*****
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 2004 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 */

26 /*
27  *      globals.cc
28  *
29  *      This declares all global variables
30  */

32 /*
33  * Included files
34  */
35 #include <nl_types.h>
36 #include <mk/defs.h>
37 #include <sys/stat.h>

39 /*
40  * Defined macros
41  */

43 /*
44  * typedefs & structs
45  */

47 /*
48  * Global variables used by make only
49  */
50 FILE          *dependency_report_file;

52 /*
53  * Global variables used by make
54  */
55 Boolean      allrules_read=false;
56 Name         posix_name;
57 Name         svr4_name;
58 Boolean      sdot_target;    /* used to identify s.m(/M)akefile */
59 Boolean      all_parallel;    /* TEAMWARE_MAKE_CMN */
60 Boolean      assign_done;
61 int          foo;

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62 Boolean      build_failed_seen;
63 #ifdef DISTRIBUTED
64 Boolean      building_serial;
65 #endif
66 Name         built_last_make_run;
67 Name         c_at;
68 #ifdef DISTRIBUTED
69 Boolean      called_make = false;
70 #endif
71 Boolean      cleanup;
72 Boolean      close_report;
73 Boolean      command_changed;
74 Boolean      commands_done;
75 Chain        conditional_targets;
76 Name         conditionals;
77 Boolean      continue_after_error;    /* '-k' */
78 Property     current_line;
79 Name         current_make_version;
80 Name         current_target;
81 short        debug_level;
82 Cmd_line     default_rule;
83 Name         default_rule_name;
84 Name         default_target_to_build;
85 Name         dmake_group;
86 Name         dmake_max_jobs;
87 Name         dmake_mode;
88 DMake_mode   dmake_mode_type;
89 Name         dmake_output_mode;
90 DMake_output_mode output_mode = txtl_mode;
91 Name         dmake_odir;
92 Name         dmake_rcfile;
93 Name         done;
94 Name         dot;
95 Name         dot_keep_state;
96 Name         dot_keep_state_file;
97 Name         empty_name;
98 #if defined(HP_UX) || defined(linux)
99 int          exit_status;
100 #endif
101 Boolean      fatal_in_progress;
102 int          file_number;
103 #if 0
104 Boolean      filter_stderr;    /* '-X' */
105 #endif
106 Name         force;
107 Name         ignore_name;
108 Boolean      ignore_errors;    /* '-i' */
109 Boolean      ignore_errors_all; /* '-i' */
110 Name         init;
111 int          job_msg_id;
112 Boolean      keep_state;
113 Name         make_state;
114 #ifdef TEAMWARE_MAKE_CMN
115 timestruc_t  make_state_before;
116 #endif
117 Dependency   makefiles_used;
118 Name         makeflags;
119 // Boolean    make_state_locked; // Moved to lib/mksh
120 Name         make_version;
121 char         mbs_buffer2[(MAXPATHLEN * MB_LEN_MAX)];
122 char         *mbs_ptr;
123 char         *mbs_ptr2;
124 int          mtool_msgs_fd;
125 Boolean      depinfo_already_read = false;
126 #ifdef NSE
127 Name         derived_src;

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128     Boolean      nse;                               /* NSE on */
129     Name         nse_backquote_seen;
130     char         nse_depinfo_lockfile[MAXPATHLEN];
131     Boolean      nse_depinfo_locked;
132     Boolean      nse_did_recursion;
133     Name         nse_shell_var_used;
134     Boolean      nse_watch_vars = false;
135     wchar_t      current_makefile[MAXPATHLEN];
136 #endif
137     Boolean      no_action_was_taken = true;        /* true if we've not **
138                                                         ** run any command */

140     Boolean      no_parallel = false;              /* TEAMWARE_MAKE_CMN */
141 #ifdef SGE_SUPPORT
142     Boolean      grid = false;                    /* TEAMWARE_MAKE_CMN */
143 #endif
144     Name         no_parallel_name;
145     Name         not_auto;
146     Boolean      only_parallel;                   /* TEAMWARE_MAKE_CMN */
147     Boolean      parallel;                        /* TEAMWARE_MAKE_CMN */
148     Name         parallel_name;
149     Name         localhost_name;
150     int          parallel_process_cnt;
151     Percent      percent_list;
152     Dyntarget    dyntarget_list;
153     Name         plus;
154     Name         pmake_machinesfile;
155     Name         precious;
156     Name         primary_makefile;
157     Boolean      quest;                          /* '-q' */
158     short        read_trace_level;
159     Boolean      reading_dependencies = false;
160     Name         recursive_name;
161     int          recursion_level;
162     short        report_dependencies_level = 0;    /* -P */
163     Boolean      report_pwd;
164     Boolean      rewrite_statefile;
165     Running      running_list;
166     char         *sccs_dir_path;
167     Name         sccs_get_name;
168     Name         sccs_get_posix_name;
169     Cmd_line     sccs_get_rule;
170     Cmd_line     sccs_get_org_rule;
171     Cmd_line     sccs_get_posix_rule;
172     Name         get_name;
173     Cmd_line     get_rule;
174     Name         get_posix_name;
175     Cmd_line     get_posix_rule;
176     Boolean      send_mtool_msgs;                /* '-K' */
177     Boolean      all_precious;
178     Boolean      silent_all;                      /* '-s' */
179     Boolean      report_cwd;                      /* '-w' */
180     Boolean      silent;                          /* '-s' */
181     Name         silent_name;
182     char         *stderr_file = NULL;
183     char         *stdout_file = NULL;
184 #ifdef SGE_SUPPORT
185     char         script_file[MAXPATHLEN] = "";
186 #endif
187     Boolean      stdout_stderr_same;
188     Dependency   suffixes;
189     Name         suffixes_name;
190     Name         sunpro_dependencies;
191     Boolean      target_variants;
192     const char   *tmpdir = NOCATGETS("/tmp");
193     const char   *temp_file_directory = NOCATGETS(".");

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192     char         *tmpdir = NOCATGETS("/tmp");
193     char         *temp_file_directory = NOCATGETS(".");
194     Name         temp_file_name;
195     short        temp_file_number;
196     time_t       timing_start;
197     wchar_t      *top_level_target;
198     Boolean      touch;                          /* '-t' */
199     Boolean      trace_reader;                   /* '-D' */
200     Boolean      build_unconditional;            /* '-u' */
201     pathpt       vroot_path = VROOT_DEFAULT;
202     Name         wait_name;
203     wchar_t      wcs_buffer2[MAXPATHLEN];
204     wchar_t      *wcs_ptr;
205     wchar_t      *wcs_ptr2;
206     nl_catd      catd;
207     long         hostid;

209 /*
210  * File table of contents
211  */

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*****
103217 Wed May 20 11:22:24 2015
new/usr/src/cmd/make/bin/main.cc
make: fix GCC warnings
*****
_unchanged_portion_omitted_
176 #endif

178 extern Name          normalize_name(register wchar_t *name_string, register i

180 extern int           main(int, char * []);

182 static void          append_makeflags_string(Name, String);
183 static void          doalarm(int);
184 static void          enter_argv_values(int , char **, ASCII_Dyn_Array *);
185 static void          make_targets(int, char **, Boolean);
186 static int           parse_command_option(char);
187 static void          read_command_options(int, char **);
188 static void          read_environment(Boolean);
189 static void          read_files_and_state(int, char **);
190 static Boolean       read_makefile(Name, Boolean, Boolean);
191 static void          report_recursion(Name);
192 static void          set_sgs_support(void);
193 static void          setup_for_projectdir(void);
194 static void          setup_makeflags_argv(void);
195 static void          report_dir_enter_leave(Boolean entering);

197 extern void expand_value(Name, register String , Boolean);

199 #ifdef DISTRIBUTED
200     extern int         dmake_ofd;
201     extern FILE*      dmake_ofp;
202     extern int         rxmPid;
203     extern XDR        xdrs_out;
204 #endif
205 #ifdef TEAMWARE_MAKE_CMN
206     extern char       verstring[];
207 #endif

209 jmp_buf jmpbuffer;
210 #if !defined(linux)
211 extern nl_catd catd;
211 nl_catd catd;
212 #endif

214 /*
215 *   main(argc, argv)
216 *
217 *   Parameters:
218 *       argc       You know what this is
219 *       argv       You know what this is
220 *
221 *   Static variables used:
222 *       list_all_targets  make -T seen
223 *       trace_status     make -p seen
224 *
225 *   Global variables used:
226 *       debug_level     Should we trace make actions?
227 *       keep_state      Set if .KEEP_STATE seen
228 *       makeflags       The Name "MAKEFLAGS", used to get macro
229 *       remote_command_name  Name of remote invocation cmd ("on")
230 *       running_list    List of parallel running processes
231 *       stdout_stderr_same  true if stdout and stderr are the same
232 *       auto_dependencies  The Name "SUNPRO_DEPENDENCIES"
233 *       temp_file_directory  Set to the dir where we create tmp file
234 *       trace_reader     Set to reflect tracing status

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235 *           working_on_targets      Set when building user targets
236 */
237 int
238 main(int argc, char *argv[])
239 {
240     /*
241     * cp is a -> to the value of the MAKEFLAGS env var,
242     * which has to be regular chars.
243     */
244     register char      *cp;
245     char               make_state_dir[MAXPATHLEN];
246     Boolean            parallel_flag = false;
247     char               *prognameptr;
248     char               *slash_ptr;
249     mode_t             um;
250     int                i;
251 #ifdef TEAMWARE_MAKE_CMN
252     struct itimerval   value;
253     char               def_dmakerc_path[MAXPATHLEN];
254     Name               dmake_name, dmake_name2;
255     Name               dmake_value, dmake_value2;
256     Property           prop, prop2;
257     struct stat        statbuf;
258     int                statval;
259 #endif

261 #ifndef PARALLEL
262     struct stat        out_stat, err_stat;
263 #endif
264     hostid = gethostid();
265 #ifdef TEAMWARE_MAKE_CMN
266     avo_get_user(NULL, NULL); // Initialize user name
267 #endif
268     bsd_signals();

270     (void) setlocale(LC_ALL, "");

272 #if defined(HP_UX) || defined(linux)
273     /* HP-UX users typically will not have NLSPATH set, and this binary
274     * requires that it be set.  On HP-UX 9.0x, /usr/lib/nls/%L/%N.cat is
275     * the path to set it to.
276     */
277
278     if (getenv(NOCATGETS("NLSPATH")) == NULL) {
279         putenv(NOCATGETS("NLSPATH=/usr/lib/nls/%L/%N.cat"));
280     }
281 #endif

283 #ifdef DMAKE_STATISTICS
284     if (getenv(NOCATGETS("DMAKE_STATISTICS"))) {
285         getname_stat = true;
286     }
287 #endif

290     /*
291     * avo_init() sets the umask to 0.  Save it here and restore
292     * it after the avo_init() call.
293     */
294 #if defined(TEAMWARE_MAKE_CMN) || defined(MAKETOOL)
295     um = umask(0);
296     avo_init(argv[0]);
297     umask(um);
298 #endif

299 #ifdef USE_DMS_CCR
300     usageTracking = new Avo_usage_tracking(NOCATGETS("dmake"), argc, argv);

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301 #else
302     cleanup = new Avo_cleanup(NOCATGETS("dmake"), argc, argv);
303 #endif
304 #endif

306 #if defined(TEAMWARE_MAKE_CMN)
307     catd = catopen(AVO_DOMAIN_DMAKE, NL_CAT_LOCALE);
308     libcli_init();

310 #ifdef _CHECK_UPDATE_H
311     /* This is for dmake only (not for Solaris make).
312     * Check (in background) if there is an update (dmake patch)
313     * and inform user
314     */
315     {
316         Avo_err     *err;
317         char        *dir;
318         err = avo_find_run_dir(&dir);
319         if (AVO_OK == err) {
320             AU_check_update_service(NOCATGETS("Dmake"), dir);
321         }
322     }
323 #endif /* _CHECK_UPDATE_H */
324 #endif

326 // ---> fprintf(stderr, catgets(catd, 15, 666, "--- SUN make ---\n"));

329 #if defined(TEAMWARE_MAKE_CMN) || defined(MAKETOOL)
330 /*
331  * I put libmksdmsil8n_init() under #ifdef because it requires avo_i18n_init()
332  * from avo_util library.
333  */
334     libmksdmsil8n_init();
335 #ifdef USE_DMS_CCR
336     libpubdmsil8n_init();
337 #endif
338 #endif

341 #ifndef TEAMWARE_MAKE_CMN
342     textdomain(NOCATGETS("SUNW_SPRO_MAKE"));
343 #endif /* TEAMWARE_MAKE_CMN */

345 #ifdef TEAMWARE_MAKE_CMN
346     g_argc = argc;
347     g_argv = (char **) malloc((g_argc + 1) * sizeof(char *));
348     for (i = 0; i < argc; i++) {
349         g_argv[i] = argv[i];
350     }
351     g_argv[i] = NULL;
352 #endif /* TEAMWARE_MAKE_CMN */

354     /*
355     * Set argv_zero_string to some form of argv[0] for
356     * recursive MAKE builds.
357     */

359     if (*argv[0] == (int) slash_char) {
360         /* argv[0] starts with a slash */
361         argv_zero_string = strdup(argv[0]);
362     } else if (strchr(argv[0], (int) slash_char) == NULL) {
363         /* argv[0] contains no slashes */
364         argv_zero_string = strdup(argv[0]);
365     } else {
366         /*

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367         * argv[0] contains at least one slash,
368         * but doesn't start with a slash
369         */
370     char        *tmp_current_path;
371     char        *tmp_string;

373     tmp_current_path = get_current_path();
374     tmp_string = getmem(strlen(tmp_current_path) + 1 +
375                       strlen(argv[0]) + 1);
376     (void) sprintf(tmp_string,
377                  "%s/%s",
378                  tmp_current_path,
379                  argv[0]);
380     argv_zero_string = strdup(tmp_string);
381     retmem_mb(tmp_string);
382 }

384 /*
385  * The following flags are reset if we don't have the
386  * (.nse_depinfo or .make.state) files locked and only set
387  * AFTER the file has been locked. This ensures that if the user
388  * interrupts the program while file_lock() is waiting to lock
389  * the file, the interrupt handler doesn't remove a lock
390  * that doesn't belong to us.
391  */
392     make_state_lockfile = NULL;
393     make_state_locked = false;

395 #ifdef NSE
396     nse_depinfo_lockfile[0] = '\0';
397     nse_depinfo_locked = false;
398 #endif

400     /*
401     * look for last slash char in the path to look at the binary
402     * name. This is to resolve the hard link and invoke make
403     * in svr4 mode.
404     */

406     /* Sun OS make standart */
407     svr4 = false;
408     posix = false;
409     if (!strcmp(argv_zero_string, NOCATGETS("/usr/xpg4/bin/make"))) {
410         svr4 = false;
411         posix = true;
412     } else {
413         prognameptr = strchr(argv[0], '/');
414         if (prognameptr) {
415             prognameptr++;
416         } else {
417             prognameptr = argv[0];
418         }
419         if (!strcmp(prognameptr, NOCATGETS("svr4.make"))) {
420             svr4 = true;
421             posix = false;
422         }
423     }

424 #if !defined(HP_UX) && !defined(linux)
425     if (getenv(USE_SVR4_MAKE) || getenv(NOCATGETS("USE_SVID"))){
426         svr4 = true;
427         posix = false;
428     }
429 #endif

431     /*
432     * Find the dmake_compat_mode: posix, sun, svr4, or gnu_style, .

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433  */
434  char * dmake_compat_mode_var = getenv(NOCATGETS("SUN_MAKE_COMPAT_MODE"));
435  if (dmake_compat_mode_var != NULL) {
436      if (0 == strcasecmp(dmake_compat_mode_var, NOCATGETS("GNU"))) {
437          gnu_style = true;
438      }
439      //svr4 = false;
440      //posix = false;
441  }

443  /*
444  * Temporary directory set up.
445  */
446  char * tmpdir_var = getenv(NOCATGETS("TMPDIR"));
447  if (tmpdir_var != NULL && *tmpdir_var == '/' && strlen(tmpdir_var) < MAX
448      strcpy(mbs_buffer, tmpdir_var);
449      for (tmpdir_var = mbs_buffer+strlen(mbs_buffer);
450          *((--tmpdir_var) == '/' && tmpdir_var > mbs_buffer;
451              *tmpdir_var = '\0');
452          if (strlen(mbs_buffer) + 32 < MAXPATHLEN) { /* 32 = strlen("/dma
453              sprintf(mbs_buffer2, NOCATGETS("%s/dmake.tst.%d.XXXXXX")
454                  mbs_buffer, getpid());
455                  int fd = mkstemp(mbs_buffer2);
456                  if (fd >= 0) {
457                      close(fd);
458                      unlink(mbs_buffer2);
459                      tmpdir = strdup(mbs_buffer);
460                  }
461              }
462          }

464  #ifndef PARALLEL
465      /* find out if stdout and stderr point to the same place */
466      if (fstat(1, &out_stat) < 0) {
467          fatal(catgets(catd, 1, 165, "fstat of standard out failed: %s"),
468              );
469      }
470      if (fstat(2, &err_stat) < 0) {
471          fatal(catgets(catd, 1, 166, "fstat of standard error failed: %s"
472              );
473      }
474      if ((out_stat.st_dev == err_stat.st_dev) &&
475          (out_stat.st_ino == err_stat.st_ino)) {
476          stdout_stderr_same = true;
477      }
478      } else {
479          stdout_stderr_same = false;
480      }
481  #endif
482      /* Make the vroot package scan the path using shell semantics */
483      set_path_style(0);

484      setup_char_semantics();

486      setup_for_projectdir();

488      /*
489      * If running with .KEEP_STATE, curdir will be set with
490      * the connected directory.
491      */
492  #if defined(SUN5_0) || defined(HP_UX) || defined(linux)
493      (void) atexit(cleanup_after_exit);
494  #else
495      (void) on_exit(cleanup_after_exit, (char *) NULL);
496  #endif

498      load_cached_names();

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500  /*
501  *      Set command line flags
502  */
503      setup_makeflags_argv();
504      read_command_options(mf_argc, mf_argv);
505      read_command_options(argc, argv);
506      if (debug_level > 0) {
507          cp = getenv(makeflags->string_mb);
508          (void) printf(catgets(catd, 1, 167, "MAKEFLAGS value: %s\n"), cp
509      )
511      setup_interrupt(handle_interrupt);

513      read_files_and_state(argc, argv);

515  #ifdef TEAMWARE_MAKE_CMN
516      /*
517      * Find the dmake_output_mode: TXT1, TXT2 or HTML1.
518      */
519      MBSTOWCS(wcs_buffer, NOCATGETS("DMAKE_OUTPUT_MODE"));
520      dmake_name2 = GETNAME(wcs_buffer, FIND_LENGTH);
521      prop2 = get_prop(dmake_name2->prop, macro_prop);
522      if (prop2 == NULL) {
523          /* DMAKE_OUTPUT_MODE not defined, default to TXT1 mode */
524          output_mode = txt1_mode;
525      } else {
526          dmake_value2 = prop2->body.macro.value;
527          if ((dmake_value2 == NULL) ||
528              (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("TXT1")))) {
529              output_mode = txt1_mode;
530          } else if (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("TXT2")))
531              output_mode = txt2_mode;
532          } else if (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("HTML1")))
533              output_mode = html1_mode;
534          } else {
535              warning(catgets(catd, 1, 352, "Unsupported value '%s' fo
536                  dmake_value2->string_mb);
537          }
538      }
539      /*
540      * Find the dmake_mode: distributed, parallel, or serial.
541      */
542      if ((!pmake_cap_r_specified) &&
543          (!pmake_machinesfile_specified)) {
544          MBSTOWCS(wcs_buffer, NOCATGETS("DMAKE_MODE"));
545          dmake_name2 = GETNAME(wcs_buffer, FIND_LENGTH);
546          prop2 = get_prop(dmake_name2->prop, macro_prop);
547          if (prop2 == NULL) {
548              /* DMAKE_MODE not defined, default to distributed mode */
549              dmake_mode_type = distributed_mode;
550              no_parallel = false;
551          } else {
552              dmake_value2 = prop2->body.macro.value;
553              if ((dmake_value2 == NULL) ||
554                  (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("distributed")))
555                  dmake_mode_type = distributed_mode;
556                  no_parallel = false;
557              } else if (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("parallel
558                  dmake_mode_type = parallel_mode;
559                  no_parallel = false;
560          #ifdef SGE_SUPPORT
561              grid = false;
562          } else if (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("grid")))
563              dmake_mode_type = parallel_mode;
564          no_parallel = false;

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565         grid = true;
566 #endif
567     } else if (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("serial"))
568             dmake_mode_type = serial_mode;
569             no_parallel = true;
570     } else {
571         fatal(catgets(catd, 1, 307, "Unknown dmake mode argument
572             });
573     }
574
575     if ((!list_all_targets) &&
576         (report_dependencies_level == 0)) {
577         /*
578          * Check to see if either DMAKE_RCFILE or DMAKE_MODE is defined.
579          * They could be defined in the env, in the makefile, or on the
580          * command line.
581          * If neither is defined, and $(HOME)/.dmakerc does not exists,
582          * then print a message, and default to parallel mode.
583          */
584 #ifdef DISTRIBUTED
585         MBSTOWCS(wcs_buffer, NOCATGETS("DMAKE_RCFILE"));
586         dmake_name = GETNAME(wcs_buffer, FIND_LENGTH);
587         MBSTOWCS(wcs_buffer, NOCATGETS("DMAKE_MODE"));
588         dmake_name2 = GETNAME(wcs_buffer, FIND_LENGTH);
589         if (((prop = get_prop(dmake_name->prop, macro_prop)) == NULL) |
590             ((dmake_value = prop->body.macro.value) == NULL)) &&
591             (((prop2 = get_prop(dmake_name2->prop, macro_prop)) == NULL)
592             ((dmake_value2 = prop2->body.macro.value) == NULL))) {
593             Boolean empty_dmakerc = true;
594             char *homedir = getenv(NOCATGETS("HOME"));
595             if ((homedir != NULL) && (strlen(homedir) < (sizeof(def_
596                 sprintf(def_dmakerc_path, NOCATGETS("%s/.dmakerc
597                 if (((statval = stat(def_dmakerc_path, &statbuf
598                     ((statval == 0) && (statbuf.st_size == 0
599                     ) else {
600                     Avo_dmakerc *rcfile = new Avo_dmaker
601                     Avo_err *err = rcfile->read(def_
602                     if (err) {
603                         fatal(err->str);
604                     }
605                     empty_dmakerc = rcfile->was_empty();
606                     delete rcfile;
607                 }
608             }
609             if (empty_dmakerc) {
610                 if (getenv(NOCATGETS("DMAKE_DEF_PRINTED")) == NU
611                     putenv(NOCATGETS("DMAKE_DEF_PRINTED=TRUE
612                     (void) fprintf(stdout, catgets(catd, 1,
613                     (void) fprintf(stdout, catgets(catd, 1,
614                 )
615                 dmake_mode_type = parallel_mode;
616                 no_parallel = false;
617             }
618         }
619 #else
620     if (dmake_mode_type == distributed_mode) {
621         (void) fprintf(stdout, NOCATGETS("dmake: Distributed mod
622         (void) fprintf(stdout, NOCATGETS(" Defaulting to p
623         dmake_mode_type = parallel_mode;
624         no_parallel = false;
625     }
626 #endif /* DISTRIBUTED */
627 }
628 }
629 #endif

```

```

631 #ifdef TEAMWARE_MAKE_CMN
632     parallel_flag = true;
633     /* XXX - This is a major hack for DMake/Licensing. */
634     if (getenv(NOCATGETS("DMAKE_CHILD")) == NULL) {
635         if (!avo_cli_search_license(argv[0], dmake_exit_callback, TRUE,
636             /*
637              * If the user can not get a TeamWare license,
638              * default to serial mode.
639              */
640             dmake_mode_type = serial_mode;
641             no_parallel = true;
642     } else {
643         putenv(NOCATGETS("DMAKE_CHILD=TRUE"));
644     }
645     start_time = time(NULL);
646     /*
647     * XXX - Hack to disable SIGALRM's from licensing library's
648     * setitimer().
649     */
650     value.it_interval.tv_sec = 0;
651     value.it_interval.tv_usec = 0;
652     value.it_value.tv_sec = 0;
653     value.it_value.tv_usec = 0;
654     (void) setitimer(ITIMER_REAL, &value, NULL);
655 }
656
657 //
658 // If dmake is running with -t option, set dmake_mode_type to serial.
659 // This is done because doname() calls touch_command() that runs serially.
660 // If we do not do that, maketool will have problems.
661 //
662     if (touch) {
663         dmake_mode_type = serial_mode;
664         no_parallel = true;
665     }
666 #else
667     parallel_flag = false;
668 #endif
669
670 #if defined (TEAMWARE_MAKE_CMN) && defined (REDIRECT_ERR)
671     /*
672     * Check whether stdout and stderr are physically same.
673     * This is in order to decide whether we need to redirect
674     * stderr separately from stdout.
675     * This check is performed only if __DMAKE_SEPARATE_STDERR
676     * is not set. This variable may be used in order to preserve
677     * the 'old' behaviour.
678     */
679     out_err_same = true;
680     char * dmake_sep_var = getenv(NOCATGETS("__DMAKE_SEPARATE_STDERR"));
681     if (dmake_sep_var == NULL || (0 != strcmp(dmake_sep_var, NOCATGETS("
682         struct stat stdout_stat;
683         struct stat stderr_stat;
684         if( (fstat(1, &stdout_stat) == 0)
685             && (fstat(2, &stderr_stat) == 0) )
686         {
687             if( (stdout_stat.st_dev != stderr_stat.st_dev)
688                 || (stdout_stat.st_ino != stderr_stat.st_ino) )
689             {
690                 out_err_same = false;
691             }
692         }
693     }
694 #endif
695
696 #ifdef DISTRIBUTED

```

```

697 /*
698  * At this point, DMake should startup an rxm with any and all
699  * DMake command line options. Rxm will, among other things,
700  * read the rc file.
701  */
702 if ((!list_all_targets) &&
703     (report_dependencies_level == 0) &&
704     (dmake_mode_type == distributed_mode)) {
705     startup_rxm();
706 }
707 #endif
708 /*
709  *
710  * Enable interrupt handler for alarms
711  */
712 (void) bsd_signal(SIGALRM, (SIG_PF)doalarm);

714 /*
715  *
716  * Check if make should report
717  */
718 if (getenv(sunpro_dependencies->string_mb) != NULL) {
719     FILE *report_file;

720     report_dependency("");
721     report_file = get_report_file();
722     if ((report_file != NULL) && (report_file != (FILE*)-1)) {
723         (void) fprintf(report_file, "\n");
724     }
725 }

727 /*
728  *
729  * Make sure SUNPRO_DEPENDENCIES is exported (or not) properly
730  * and NSE_DEP.
731  */
732 if (keep_state) {
733     maybe_append_prop(sunpro_dependencies, macro_prop)->
734     body.macro.exported = true;
735 }
736 #ifdef NSE
737 (void) setenv(NOCATGETS("NSE_DEP"), get_current_path());
738 #endif
739 } else {
740     maybe_append_prop(sunpro_dependencies, macro_prop)->
741     body.macro.exported = false;
742 }

743 working_on_targets = true;
744 if (trace_status) {
745     dump_make_state();
746 }
747 #if defined(SUN5_0) || defined(HP_UX) || defined(linux)
748     fclose(stdout);
749     fclose(stderr);
750     exit_status = 0;
751 #endif
752 exit(0);
753 }
754 if (list_all_targets) {
755     dump_target_list();
756 }
757 #if defined(SUN5_0) || defined(HP_UX) || defined(linux)
758     fclose(stdout);
759     fclose(stderr);
760     exit_status = 0;
761 #endif
762 exit(0);
763 }
764 trace_reader = false;

```

```

763 /*
764  * Set temp_file_directory to the directory the .make.state
765  * file is written to.
766  */
767 if ((slash_ptr = strrchr(make_state->string_mb, (int) slash_char)) == NU
768     temp_file_directory = strdup(get_current_path());
769 } else {
770     *slash_ptr = (int) nul_char;
771     (void) strcpy(make_state_dir, make_state->string_mb);
772     *slash_ptr = (int) slash_char;
773     /* when there is only one slash and it's the first
774     ** character, make_state_dir should point to '/'.
775     */
776     if (make_state_dir[0] == '\0') {
777         make_state_dir[0] = '/';
778         make_state_dir[1] = '\0';
779     }
780     if (make_state_dir[0] == (int) slash_char) {
781         temp_file_directory = strdup(make_state_dir);
782     } else {
783         char tmp_current_path2[MAXPATHLEN];
784
785         (void) sprintf(tmp_current_path2,
786                        "%s/%s",
787                        get_current_path(),
788                        make_state_dir);
789         temp_file_directory = strdup(tmp_current_path2);
790     }
791 }

793 #ifdef DISTRIBUTED
794     building_serial = false;
795 #endif

797 report_dir_enter_leave(true);

799 make_targets(argc, argv, parallel_flag);

801 report_dir_enter_leave(false);

803 #ifdef NSE
804     exit(nse_exit_status());
805 #else
806     if (build_failed_ever_seen) {
807         #if defined(SUN5_0) || defined(HP_UX) || defined(linux)
808             if (posix) {
809                 exit_status = 1;
810             }
811         #endif
812         exit(1);
813     }
814     #if defined(SUN5_0) || defined(HP_UX) || defined(linux)
815         exit_status = 0;
816     #endif
817     exit(0);
818 #endif
819 /* NOTREACHED */
820 }

```

unchanged portion omitted

```

1255 /*
1256  *
1257  * read_command_options(argc, argv)
1258  *
1259  * Scan the cmd line options and process the ones that start with "--"

```

```

1260 *      Return value:
1261 *          -M argument, if any
1262 *
1263 *      Parameters:
1264 *          argc      You know what this is
1265 *          argv      You know what this is
1266 *
1267 *      Global variables used:
1268 */
1269 static void
1270 read_command_options(register int argc, register char **argv)
1271 {
1272     register int      ch;
1273     int              current_optind = 1;
1274     int              last_optind_with_double_hyphen = 0;
1275     int              last_optind;
1276     int              last_current_optind;
1277     register int     i;
1278     register int     j;
1279     register int     k;
1280     register int     makefile_next = 0; /*
1281                                     * flag to note options:
1282                                     * -c, f, g, j, m, o
1283                                     */
1284     const char       *tprtr;
1285     const char       *CMD_OPTS;
1286
1287     extern char       *optarg;
1288     extern int        optind, opterr, optopt;
1289
1290 #define SUNPRO_CMD_OPTS "--Bbc:Ddef:g:ij:K:kM:m:NnO:o:PpqRrSsTtuVvwX:"
1291
1292 #ifdef TEAMWARE_MAKE_CMN
1293 #   define SVR4_CMD_OPTS "--c:ef:g:ij:km:nO:o:pqrsTtVv"
1294 #else
1295 #   define SVR4_CMD_OPTS "--ef:iknpqrstV"
1296 #endif
1297
1298 /*
1299 * Added V in SVR4_CMD_OPTS also, which is going to be a hidden
1300 * option, just to make sure that the getopt doesn't fail when some
1301 * users leave their USE_SVR4_MAKE set and try to use the makefiles
1302 * that are designed to issue commands like $(MAKE) -V. Anyway it
1303 * sets the same flag but ensures that getopt doesn't fail.
1304 */
1305
1306 opterr = 0;
1307 optind = 1;
1308 while (1) {
1309     last_optind=optind;          /* Save optind and curre
1310     last_current_optind=current_optind; /* in case we have to re
1311     if (svr4) {
1312         CMD_OPTS=SVR4_CMD_OPTS;
1313         ch = getopt(argc, argv, SVR4_CMD_OPTS);
1314     } else {
1315         CMD_OPTS=SUNPRO_CMD_OPTS;
1316         ch = getopt(argc, argv, SUNPRO_CMD_OPTS);
1317     }
1318     if (ch == EOF) {
1319         if (optind < argc) {
1320             /*
1321              * Fixing bug 4102537:
1322              *   Strange behaviour of command make using --
1323              *   Not all argv have been processed
1324              *   Skip non-flag argv and continue processing.
1325              */

```

```

1326         optind++;
1327         current_optind++;
1328         continue;
1329     } else {
1330         break;
1331     }
1332
1333 }
1334 if (ch == '?') {
1335     if (optopt == '-') {
1336         /* Bug 5060758: getopt() changed behavior (s10_6
1337          * and now we have to deal with cases when optio
1338          * with double hyphen appear here, from --$(MAKEF
1339          */
1340         i = current_optind;
1341         if (argv[i][0] == '-') {
1342             if (argv[i][1] == '-') {
1343                 if (argv[i][2] != '\0') {
1344                     /* Check if this option is allowed */
1345                     tprtr = strchr(CMD_OPTS, argv[i][2]);
1346                     if (tprtr) {
1347                         if (last_optind_with_double_hyphen != cu
1348                             /* This is first time we are trying to
1349                              * problem with this option. If we com
1350                              * time, we will go to fatal error.
1351                              */
1352                         last_optind_with_double_hyphen = curre
1353
1354                         /* Eliminate first hyphen character */
1355                         for (j=0; argv[i][j] != '\0'; j++) {
1356                             argv[i][j] = argv[i][j+1];
1357                         }
1358
1359                         /* Repeat the processing of this argum
1360                         optind=last_optind;
1361                         current_optind=last_current_optind;
1362                         continue;
1363                     }
1364                 }
1365             }
1366         }
1367     }
1368 }
1369
1370 if (ch == '?') {
1371     if (svr4) {
1372 #ifdef TEAMWARE_MAKE_CMN
1373         fprintf(stderr,
1374             catgets(catd, 1, 267, "Usage : dmake [ -
1375             fprintf(stderr,
1376                 catgets(catd, 1, 268, "
1377             fprintf(stderr,
1378                 catgets(catd, 1, 269, "
1379             #else
1380         fprintf(stderr,
1381             catgets(catd, 1, 270, "Usage : make [ -f
1382             fprintf(stderr,
1383                 catgets(catd, 1, 271, "
1384             #endif
1385         tprtr = strchr(SVR4_CMD_OPTS, optopt);
1386     } else {
1387 #ifdef TEAMWARE_MAKE_CMN
1388         fprintf(stderr,
1389             catgets(catd, 1, 272, "Usage : dmake [ -
1390         fprintf(stderr,
1391

```

```

1392         catgets(catd, 1, 273, " [ -
1393     fprintf(stderr,
1394         catgets(catd, 1, 274, " [ -
1395     fprintf(stderr,
1396         catgets(catd, 1, 275, " [ -
1397 #else
1398     fprintf(stderr,
1399         catgets(catd, 1, 276, "Usage : make [ -f
1400     fprintf(stderr,
1401         catgets(catd, 1, 277, " [ -e
1402     fprintf(stderr,
1403         catgets(catd, 1, 278, " [ -u
1404 #endif
1405     tptr = strchr(SUNPRO_CMD_OPTS, optopt);
1406     }
1407     if (!tptr) {
1408     fatal(catgets(catd, 1, 279, "Unknown option '-%c
1409     } else {
1410     fatal(catgets(catd, 1, 280, "Missing argument af
1411     }
1412     }
1413
1414 #if defined(linux)
1415     if (ch == 1) {
1416     if (optind < argc) {
1417         //optind++;
1418         //current_optind++;
1419         makefile_next = 0;
1420         current_optind = optind;
1421         continue;
1422     } else {
1423         break;
1424     }
1425     }
1426 #endif
1427
1428     makefile_next |= parse_command_option(ch);
1429     /*
1430     * If we're done processing all of the options of
1431     * ONE argument string...
1432     */
1433     if (current_optind < optind) {
1434         i = current_optind;
1435         k = 0;
1436         /* If there's an argument for an option... */
1437         if ((optind - current_optind) > 1) {
1438             k = i + 1;
1439         }
1440         switch (makefile_next) {
1441         case 0:
1442             argv[i] = NULL;
1443             /* This shouldn't happen */
1444             if (k) {
1445                 argv[k] = NULL;
1446             }
1447             break;
1448         case 1: /* -f seen */
1449             argv[i] = (char *)NOCATGETS("-f");
1450             argv[i] = NOCATGETS("-f");
1451             break;
1452         case 2: /* -c seen */
1453             argv[i] = (char *)NOCATGETS("-c");
1454             argv[i] = NOCATGETS("-c");
1455 #ifndef TEAMWARE_MAKE_CMN
1456             warning(catgets(catd, 1, 281, "Ignoring Distribu

```

```

1456 #endif
1457     break;
1458     case 4: /* -g seen */
1459         argv[i] = (char *)NOCATGETS("-g");
1460         argv[i] = NOCATGETS("-g");
1461 #ifndef TEAMWARE_MAKE_CMN
1462     warning(catgets(catd, 1, 282, "Ignoring Distribu
1463 #endif
1464     break;
1465     case 8: /* -j seen */
1466         argv[i] = (char *)NOCATGETS("-j");
1467         argv[i] = NOCATGETS("-j");
1468 #ifndef TEAMWARE_MAKE_CMN
1469     warning(catgets(catd, 1, 283, "Ignoring Distribu
1470 #endif
1471     break;
1472     case 16: /* -M seen */
1473         argv[i] = (char *)NOCATGETS("-M");
1474         argv[i] = NOCATGETS("-M");
1475 #ifndef TEAMWARE_MAKE_CMN
1476     warning(catgets(catd, 1, 284, "Ignoring Parallel
1477 #endif
1478     break;
1479     case 32: /* -m seen */
1480         argv[i] = (char *)NOCATGETS("-m");
1481         argv[i] = NOCATGETS("-m");
1482 #ifndef TEAMWARE_MAKE_CMN
1483     warning(catgets(catd, 1, 285, "Ignoring Distribu
1484 #endif
1485     break;
1486     case 128: /* -O seen */
1487         argv[i] = (char *)NOCATGETS("-O");
1488         argv[i] = NOCATGETS("-O");
1489     break;
1490     case 256: /* -K seen */
1491         argv[i] = (char *)NOCATGETS("-K");
1492         argv[i] = NOCATGETS("-K");
1493     break;
1494     case 512: /* -o seen */
1495         argv[i] = (char *)NOCATGETS("-o");
1496         argv[i] = NOCATGETS("-o");
1497 #ifndef TEAMWARE_MAKE_CMN
1498     warning(catgets(catd, 1, 311, "Ignoring Distribu
1499 #endif
1500     break;
1501     case 1024: /* -x seen */
1502         argv[i] = (char *)NOCATGETS("-x");
1503         argv[i] = NOCATGETS("-x");
1504 #ifndef TEAMWARE_MAKE_CMN
1505     warning(catgets(catd, 1, 353, "Ignoring Distribu
1506 #endif
1507     break;
1508     default: /* > 1 of -c, f, g, j, K, M, m, O, o, x seen */
1509         fatal(catgets(catd, 1, 286, "Illegal command lin
1510     }
1511     }
1512     }
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1570 * Convert the MAKEFLAGS string value into a vector of char *, similar
1571 * to argv.
1572 */
1573 static void
1574 setup_makeflags_argv()
1575 {
1576     char      *cp;
1577     char      *cp1;
1578     char      *cp2;
1579     char      *cp3;
1580     char      *cp_orig;
1581     Boolean   add_hyphen;
1582     int       i;
1583     char      tmp_char;

1585     mf_argc = 1;
1586     cp = getenv(makeflags->string_mb);
1587     cp_orig = cp;

1589     if (cp) {
1590         /*
1591          * If new MAKEFLAGS format, no need to add hyphen.
1592          * If old MAKEFLAGS format, add hyphen before flags.
1593          */

1595         if ((strchr(cp, (int) hyphen_char) != NULL) ||
1596             (strchr(cp, (int) equal_char) != NULL)) {

1598             /* New MAKEFLAGS format */

1600             add_hyphen = false;
1601 #ifdef ADDFIX5060758
1602             /* Check if MAKEFLAGS value begins with multiple
1603              * hyphen characters, and remove all duplicates.
1604              * Usually it happens when the next command is
1605              * used: $(MAKE) -$(MAKEFLAGS)
1606              * This is a workaround for BugID 5060758.
1607              */
1608             while (*cp) {
1609                 if (*cp != (int) hyphen_char) {
1610                     break;
1611                 }
1612                 cp++;
1613                 if (*cp == (int) hyphen_char) {
1614                     /* There are two hyphens. Skip one */
1615                     cp_orig = cp;
1616                     cp++;
1617                 }
1618                 if (!(*cp)) {
1619                     /* There are hyphens only. Skip all */
1620                     cp_orig = cp;
1621                     break;
1622                 }
1623             }
1624 #endif
1625             } else {

1627                 /* Old MAKEFLAGS format */

1629                 add_hyphen = true;
1630             }
1631         }

1633     /* Find the number of arguments in MAKEFLAGS */
1634     while (cp && *cp) {
1635         /* Skip white spaces */

```

```

1636         while (cp && *cp && isspace(*cp)) {
1637             cp++;
1638         }
1639         if (cp && *cp) {
1640             /* Increment arg count */
1641             mf_argc++;
1642             /* Go to next white space */
1643             while (cp && *cp && !isspace(*cp)) {
1644                 if(*cp == (int) backslash_char) {
1645                     cp++;
1646                 }
1647                 cp++;
1648             }
1649         }
1650     }
1651     /* Allocate memory for the new MAKEFLAGS argv */
1652     mf_argv = (char **) malloc((mf_argc + 1) * sizeof(char *));
1653     mf_argv[0] = (char *)NOCATGETS("MAKEFLAGS");
1654     mf_argv[0] = NOCATGETS("MAKEFLAGS");
1655     /*
1656      * Convert the MAKEFLAGS string value into a vector of char *,
1657      * similar to argv.
1658      */
1659     cp = cp_orig;
1660     for (i = 1; i < mf_argc; i++) {
1661         /* Skip white spaces */
1662         while (cp && *cp && isspace(*cp)) {
1663             cp++;
1664         }
1665         if (cp && *cp) {
1666             cp_orig = cp;
1667             /* Go to next white space */
1668             while (cp && *cp && !isspace(*cp)) {
1669                 if(*cp == (int) backslash_char) {
1670                     cp++;
1671                 }
1672             }
1673             tmp_char = *cp;
1674             *cp = (int) nul_char;
1675             if (add_hyphen) {
1676                 mf_argv[i] = getmem(2 + strlen(cp_orig));
1677                 mf_argv[i][0] = '\0';
1678                 (void) strcat(mf_argv[i], "-");
1679                 // (void) strcat(mf_argv[i], cp_orig);
1680                 unquote_str(cp_orig, mf_argv[i]+1);
1681             } else {
1682                 mf_argv[i] = getmem(2 + strlen(cp_orig));
1683                 //mf_argv[i] = strdup(cp_orig);
1684                 unquote_str(cp_orig, mf_argv[i]);
1685             }
1686             *cp = tmp_char;
1687         }
1688         mf_argv[i] = NULL;
1689     }
1690 }

```

unchanged\_portion\_omitted

```

3017 /*
3018 * Append the DMake option and value to the MAKEFLAGS string.
3019 */
3020 static void
3021 append_makeflags_string(Name name, register String makeflags_string)
3022 {
3023     const char *option;
3024     char *option;

```

```
3025     if (strcmp(name->string_mb, NOCATGETS("DMAKE_GROUP")) == 0) {
3026         option = NOCATGETS(" -g ");
3027     } else if (strcmp(name->string_mb, NOCATGETS("DMAKE_MAX_JOBS")) == 0) {
3028         option = NOCATGETS(" -j ");
3029     } else if (strcmp(name->string_mb, NOCATGETS("DMAKE_MODE")) == 0) {
3030         option = NOCATGETS(" -m ");
3031     } else if (strcmp(name->string_mb, NOCATGETS("DMAKE_ODIR")) == 0) {
3032         option = NOCATGETS(" -o ");
3033     } else if (strcmp(name->string_mb, NOCATGETS("DMAKE_RCFILE")) == 0) {
3034         option = NOCATGETS(" -c ");
3035     } else if (strcmp(name->string_mb, NOCATGETS("PMAKE_MACHINESFILE")) == 0
3036         option = NOCATGETS(" -M ");
3037     } else if (strcmp(name->string_mb, NOCATGETS("DMAKE_OUTPUT_MODE")) == 0)
3038         option = NOCATGETS(" -x DMAKE_OUTPUT_MODE=");
3039     } else if (strcmp(name->string_mb, NOCATGETS("SUN_MAKE_COMPAT_MODE")) ==
3040         option = NOCATGETS(" -x SUN_MAKE_COMPAT_MODE=");
3041     } else {
3042         fatal(catgets(catd, 1, 289, "Internal error: name not recognized
3043     });
3044     Property prop = maybe_append_prop(name, macro_prop);
3045     if( prop == 0 || prop->body.macro.value == 0 ||
3046         prop->body.macro.value->string_mb == 0 ) {
3047         return;
3048     }
3049     char mbs_value[MAXPATHLEN + 100];
3050     strcpy(mbs_value, option);
3051     strcat(mbs_value, prop->body.macro.value->string_mb);
3052     MBSTOWCS(wcs_buffer, mbs_value);
3053     append_string(wcs_buffer, makeflags_string, FIND_LENGTH);
3054 }
```

unchanged\_portion\_omitted

\*\*\*\*\*

26901 Wed May 20 11:22:25 2015

new/usr/src/cmd/make/bin/misc.cc

make: fix GCC warnings

\*\*\*\*\*

unchanged portion omitted

```
859 /* resolve - check for specified file in specified directory
860 *      sets up dir, following symlinks.
861 *      returns zero for success, or
862 *      -1 for error (with errno set properly)
863 */
864 static int
865 resolve (const char *indir, /* search directory */
866         const char *cmd, /* search for name */
867         char *indir, /* search directory */
868         char *cmd, /* search for name */
869         char *dir, /* directory buffer */
870         char **run) /* resolution name ptr */
871 {
872     char *p;
873     int rv = -1;
874     int sll;
875     char symlink[MAXPATHLEN + 1];
876
877     do {
878         errno = ENAMETOOLONG;
879         if ((strlen (indir) + strlen (cmd) + 2) > (size_t) MAXPATHLEN)
880             break;
881
882         sprintf (dir, "%s/%s", indir, cmd);
883         if (check_if_exec (dir) != 0) /* check if dir is an executable */
884             {
885                 break; /* Not an executable program */
886             }
887
888         /* follow symbolic links */
889         while ((sll = readlink (dir, symlink, MAXPATHLEN)) >= 0) {
890             symlink[sll] = 0;
891             if (*symlink == '/')
892                 strcpy (dir, symlink);
893             else
894                 sprintf (strchr (dir, '/'), "%s", symlink);
895         }
896         if (errno != EINVAL)
897             break;
898
899         p = strchr (dir, '/');
900         *p++ = 0;
901         if (run) /* user wants resolution name */
902             *run = p;
903         rv = 0; /* complete, with success! */
904     } while (0);
905     return rv;
906 }
```

unchanged portion omitted

new/usr/src/cmd/make/bin/read.cc

1

```
*****
58611 Wed May 20 11:22:25 2015
new/usr/src/cmd/make/bin/read.cc
make: fix GCC warnings
*****
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 2006 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 */

26 /*
27  *      read.c
28  *
29  *      This file contains the makefile reader.
30  */

32 /*
33  * Included files
34  */
35 #include <avo/avo_alloc.h>          /* alloc() */
36 #include <errno.h>                 /* errno */
37 #include <fcntl.h>                 /* fcntl() */
38 #include <mk/defs.h>
39 #include <mksh/macro.h>            /* expand_value(), expand_macro() */
40 #include <mksh/misc.h>             /* getmem() */
41 #include <mksh/read.h>             /* get_next_block_fn() */
42 #include <sys/uio.h>               /* read() */
43 #include <unistd.h>                /* read(), unlink() */

45 #if defined(HP_UX) || defined(linux)
46 #include <avo/types.h>
47 extern "C" Avo_err *avo_find_run_dir(char **dirp);
48 #endif

50 /*
51  * typedefs & structs
52  */

54 /*
55  * Static variables
56  */

58 static int line_started_with_space=0; // Used to diagnose spaces instead of tabs

60 /*
61  * File table of contents
```

new/usr/src/cmd/make/bin/read.cc

2

```
62 */
63 static void      parse_makefile(register Name true_makefile_name, register
64 static Source    push_macro_value(register Source bp, register wchar_t *b
65 extern void      enter_target_groups_and_dependencies(Name_vector target,
66 extern Name      normalize_name(register wchar_t *name_string, register i

68 /*
69  *      read_simple_file(makefile_name, chase_path, doname_it,
70  *                      complain, must_exist, report_file, lock_makefile)
71  *
72  *      Make the makefile and setup to read it. Actually read it if it is stdio
73  *
74  *      Return value:
75  *                      false if the read failed
76  *
77  *      Parameters:
78  *      makefile_name  Name of the file to read
79  *      chase_path     Use the makefile path when opening file
80  *      doname_it      Call doname() to build the file first
81  *      complain       Print message if doname/open fails
82  *      must_exist     Generate fatal if file is missing
83  *      report_file    Report file when running -P
84  *      lock_makefile  Lock the makefile when reading
85  *
86  *      Static variables used:
87  *
88  *      Global variables used:
89  *      do_not_exec_rule Is -n on?
90  *      file_being_read Set to the name of the new file
91  *      line_number     The number of the current makefile line
92  *      makefiles_used  A list of all makefiles used, appended to
93  */

96 Boolean
97 read_simple_file(register Name makefile_name, register Boolean chase_path, regis
98 {
99     static short      max_include_depth;
100    register Property  makefile = maybe_append_prop(makefile_name,
101                                                    makefile_prop);
102    Boolean             forget_after_parse = false;
103    static pathpt      makefile_path;
104    register int       n;
105    char               *path;
106    register Source    source = ALLOC(Source);
107    Property           orig_makefile = makefile;
108    Dependency         *dpp;
109    Dependency         dp;
110    register int       length;
111    wchar_t            *previous_file_being_read = file_being_read;
112    int                previous_line_number = line_number;
113    wchar_t            previous_current_makefile[MAXPATHLEN];
114    Makefile_type      save_makefile_type;
115    Name               normalized_makefile_name;
116    register wchar_t   *string_start;
117    register wchar_t   *string_end;

120 #if defined(HP_UX) || defined(linux)
121     Avo_err          *findrundir_err;
122     char             *run_dir, makerules_dir[BUFSIZ];
123 #endif

125     wchar_t * wcb = get_wstring(makefile_name->string_mb);

127 #ifndef NSE
```

```

128     if (report_file){
129         wscpy(previous_current_makefile, current_makefile);
130         wscpy(current_makefile, wcb);
131     }
132 #endif
133     if (max_include_depth++ >= 40) {
134         fatal(catgets(catd, 1, 66, "Too many nested include statements")
135     )
136     if (makefile->body.makefile.contents != NULL) {
137         retmem(makefile->body.makefile.contents);
138     }
139     source->inp_buf =
140     source->inp_buf_ptr =
141     source->inp_buf_end = NULL;
142     source->error_converting = false;
143     makefile->body.makefile.contents = NULL;
144     makefile->body.makefile.size = 0;
145     if ((makefile_name->hash.length != 1) ||
146         (wcb[0] != (int) hyphen_char)) {
147         if ((makefile->body.makefile.contents == NULL) &&
148             (doname_it)) {
149             if (makefile_path == NULL) {
150                 add_dir_to_path(".",
151                     &makefile_path,
152                     -1);
153 #ifdef SUN5_0
154                 add_dir_to_path(NOCATGETS("/usr/share/lib/make")
155                     &makefile_path,
156                     -1);
157                 add_dir_to_path(NOCATGETS("/etc/default"),
158                     &makefile_path,
159                     -1);
160 #elif defined(HP_UX)
161                 findrundir_err = avo_find_run_dir(&run_dir);
162                 if (! findrundir_err) {
163                     (void) sprintf(makerules_dir, NOCATGETS(
164                         add_dir_to_path(makerules_dir,
165                             &makefile_path,
166                             -1);
167                 }
168
169                 add_dir_to_path(NOCATGETS("/opt/SUNWspro/share/l
170                     &makefile_path,
171                     -1);
172                 add_dir_to_path(NOCATGETS("/usr/share/lib/make")
173                     &makefile_path,
174                     -1);
175 #elif defined(linux)
176                 findrundir_err = avo_find_run_dir(&run_dir);
177                 if (! findrundir_err) {
178                     (void) sprintf(makerules_dir, NOCATGETS(
179                         add_dir_to_path(makerules_dir,
180                             &makefile_path,
181                             -1);
182                 }
183
184                 add_dir_to_path(NOCATGETS("/usr/SUNWspro/lib"),
185                     &makefile_path,
186                     -1);
187                 add_dir_to_path(NOCATGETS("/opt/SUNWspro/share/l
188                     &makefile_path,
189                     -1);
190                 add_dir_to_path(NOCATGETS("/usr/share/lib/make")
191                     &makefile_path,
192                     -1);
193 #else

```

```

194         add_dir_to_path(NOCATGETS("/usr/include/make"),
195             &makefile_path,
196             -1);
197 #endif
198     }
199     save_makefile_type = makefile_type;
200     makefile_type = reading_nothing;
201     if (doname(makefile_name, true, false) == build_dont_kno
202         /* Try normalized filename */
203         string_start=get_wstring(makefile_name->string_m
204         for (string_end=string_start+1; *string_end != L
204         for (string_end=string_start+1; *string_end != N
205         normalized_makefile_name=normalize_name(string_s
206         if ((strcmp(makefile_name->string_mb, normalized
207             (doname(normalized_makefile_name, true,
208                 n = access_vroot(makefile_name->string_m
209                 4,
210                 chase_path ?
211                 makefile_path : NULL,
212                 VROOT_DEFAULT);
213         if (n == 0) {
214             get_vroot_path((char **) NULL,
215                 &path,
216                 (char **) NULL);
217             if ((path[0] == (int) period_cha
218                 path[1] == (int) slash_char
219                 path += 2;
220             }
221             MBSTOWCS(wcs_buffer, path);
222             makefile_name = GETNAME(wcs_buff
223                 FIND_LENGTH);
224         }
225     }
226     retmem(string_start);
227     /*
228     * Commented out: retmem_mb(normalized_makefile_
229     * We have to return this memory, but it seems t
230     * in dmake or in Sun C++ 5.7 compiler (it works
231     * is compiled using Sun C++ 5.6).
232     */
233     // retmem_mb(normalized_makefile_name->string_mb
234     }
235     makefile_type = save_makefile_type;
236 }
237 source->string.free_after_use = false;
238 source->previous = NULL;
239 source->already_expanded = false;
240 /* Lock the file for read, but not when -n. */
241 if (lock_makefile &&
242     !do_not_exec_rule) {
243
244     make_state_lockfile = getmem(strlen(make_state->string_
245     (void) sprintf(make_state_lockfile,
246         NOCATGETS("%s.lock"),
247         make_state->string_mb);
248     (void) file_lock(make_state->string_mb,
249         make_state_lockfile,
250         (int *) &make_state_locked,
251         0);
252     if(!make_state_locked) {
253         printf(NOCATGETS("-- NO LOCKING for read\n"));
254         retmem_mb(make_state_lockfile);
255         make_state_lockfile = 0;
256         return failed;
257     }
258 }

```

```

259     if (makefile->body.makefile.contents == NULL) {
260         save_makefile_type = makefile_type;
261         makefile_type = reading_nothing;
262         if ((doname_it) &&
263             (doname(makefile_name, true, false) == build_failed)
264             if (complain) {
265                 (void) fprintf(stderr,
266 #ifdef DISTRIBUTED
267                 catgets(catd, 1, 67, "dma
268 #else
269                 catgets(catd, 1, 237, "ma
270 #endif
271                 makefile_name->string_mb)
272             }
273             max_include_depth--;
274             makefile_type = save_makefile_type;
275             return failed;
276         }
277         makefile_type = save_makefile_type;
278         //
279         // Before calling exists() make sure that we have the ri
280         //
281         makefile_name->stat.time = file_no_time;
282
283         if (exists(makefile_name) == file_doesnt_exist) {
284             if (complain ||
285                 (makefile_name->stat.stat_errno != ENOENT))
286                 if (must_exist) {
287                     fatal(catgets(catd, 1, 68, "Can'
288                         makefile_name->string_mb,
289                         errmsg(makefile_name->
290                             stat.stat_errno));
291                 } else {
292                     warning(catgets(catd, 1, 69, "Ca
293                         makefile_name->string_mb
294                         errmsg(makefile_name->
295                             stat.stat_errno))
296                 }
297             }
298             max_include_depth--;
299             if (make_state_locked && (make_state_lockfile !=
300                 (void) unlink(make_state_lockfile);
301                 retmem_mb(make_state_lockfile);
302                 make_state_lockfile = NULL;
303                 make_state_locked = false;
304             }
305             retmem(wcb);
306             retmem_mb((char *)source);
307             return failed;
308         }
309         /*
310         * These values are the size and bytes of
311         * the MULTI-BYTE makefile.
312         */
313         orig_makefile->body.makefile.size =
314         makefile->body.makefile.size =
315         source->bytes_left_in_file =
316         makefile_name->stat.size;
317         if (report_file) {
318             for (dpp = &makefiles_used;
319                 *dpp != NULL;
320                 dpp = &(*dpp)->next);
321             dp = ALLOC(Dependency);
322             dp->next = NULL;
323             dp->name = makefile_name;
324             dp->automatic = false;

```

```

325         dp->stale = false;
326         dp->built = false;
327         *dpp = dp;
328     }
329     source->fd = open_vroot(makefile_name->string_mb,
330                           O_RDONLY,
331                           0,
332                           NULL,
333                           VROOT_DEFAULT);
334     if (source->fd < 0) {
335         if (complain || (errno != ENOENT)) {
336             if (must_exist) {
337                 fatal(catgets(catd, 1, 70, "Can'
338                     makefile_name->string_mb,
339                     errmsg(errno));
340             } else {
341                 warning(catgets(catd, 1, 71, "Ca
342                     makefile_name->string_mb
343                     errmsg(errno));
344             }
345             max_include_depth--;
346             return failed;
347         }
348     }
349     (void) fcntl(source->fd, F_SETFD, 1);
350     orig_makefile->body.makefile.contents =
351     makefile->body.makefile.contents =
352     source->string.text.p =
353     source->string.buffer.start =
354     ALLOC_WC((int) (makefile_name->stat.size + 2));
355     if (makefile_type == reading_cpp_file) {
356         forget_after_parse = true;
357     }
358     source->string.text.end = source->string.text.p;
359     source->string.buffer.end =
360     source->string.text.p + makefile_name->stat.size;
361 } else {
362     /* Do we ever reach here? */
363     source->fd = -1;
364     source->string.text.p =
365     source->string.buffer.start =
366     makefile->body.makefile.contents;
367     source->string.text.end =
368     source->string.buffer.end =
369     source->string.text.p + makefile->body.makefile.size
370     source->bytes_left_in_file =
371     makefile->body.makefile.size;
372 }
373     file_being_read = wcb;
374 } else {
375     char        *stdin_text_p;
376     char        *stdin_text_end;
377     char        *stdin_buffer_start;
378     char        *stdin_buffer_end;
379     char        *p_mb;
380     int         num_mb_chars;
381     size_t      num_wc_chars;
382
383     MBSTOWCS(wcs_buffer, NOCATGETS("Standard in"));
384     makefile_name = GETNAME(wcs_buffer, FIND_LENGTH);
385     /*
386     * Memory to read standard in, then convert it
387     * to wide char strings.
388     */
389     stdin_buffer_start =
390     stdin_text_p = getmem(length = 1024);

```



new/usr/src/cmd/make/include/mk/defs.h

1

```
*****
16569 Wed May 20 11:22:26 2015
new/usr/src/cmd/make/include/mk/defs.h
make: fix GCC warnings
*****
_____unchanged_portion_omitted_____

179 /*
180 * Typedefs for all structs
181 */
182 typedef struct _Cmd_line      *Cmd_line, Cmd_line_rec;
183 typedef struct _Dependency    *Dependency, Dependency_rec;
184 typedef struct _Macro        *Macro, Macro_rec;
185 typedef struct _Name_vector   *Name_vector, Name_vector_rec;
186 typedef struct _Percent      *Percent, Percent_rec;
187 typedef struct _Dyntarget     *Dyntarget;
188 typedef struct _Recursive_make *Recursive_make, Recursive_make_rec;
189 typedef struct _Running       *Running, Running_rec;

192 /*
193 *      extern declarations for all global variables.
194 *      The actual declarations are in globals.cc
195 */
196 extern Boolean      allrules_read;
197 extern Name         posix_name;
198 extern Name         svr4_name;
199 extern Boolean      sdot_target;
200 extern Boolean      all_parallel;
201 extern Boolean      assign_done;
202 extern Boolean      build_failed_seen;
203 #ifdef DISTRIBUTED
204 extern Boolean      building_serial;
205 #endif
206 extern Name         built_last_make_run;
207 extern Name         c_at;
208 #ifdef DISTRIBUTED
209 extern Boolean      called_make;
210 #endif
211 extern Boolean      command_changed;
212 extern Boolean      commands_done;
213 extern Chain        conditional_targets;
214 extern Name         conditionals;
215 extern Boolean      continue_after_error;
216 extern Property     current_line;
217 extern Name         current_make_version;
218 extern Name         current_target;
219 extern short        debug_level;
220 extern Cmd_line     default_rule;
221 extern Name         default_rule_name;
222 extern Name         default_target_to_build;
223 extern Boolean      depinfo_already_read;
224 extern Name         dmake_group;
225 extern Name         dmake_max_jobs;
226 extern Name         dmake_mode;
227 extern DMake_mode  dmake_mode_type;
228 extern Name         dmake_output_mode;
229 extern DMake_output_mode dmake_output_mode;
230 extern Name         dmake_odir;
231 extern Name         dmake_rcfile;
232 extern Name         done;
233 extern Name         dot;
234 extern Name         dot_keep_state;
235 extern Name         dot_keep_state_file;
236 extern Name         empty_name;
```

new/usr/src/cmd/make/include/mk/defs.h

2

```
237 extern Boolean     fatal_in_progress;
238 extern int          file_number;
239 extern Name         force;
240 extern Name         ignore_name;
241 extern Boolean      ignore_errors;
242 extern Boolean      ignore_errors_all;
243 extern Name         init;
244 extern int          job_msg_id;
245 extern Boolean      keep_state;
246 extern Name         make_state;
247 #ifdef TEAMWARE_MAKE_CMN
248 extern timestruc_t make_state_before;
249 #endif
250 extern Boolean      make_state_locked;
251 extern Dependency   makefiles_used;
252 extern Name         makeflags;
253 extern Name         make_version;
254 extern char         mbs_buffer2[];
255 extern char         *mbs_ptr;
256 extern char         *mbs_ptr2;
257 extern Boolean      no_action_was_taken;
258 extern int          mtool_msgs_fd;
259 extern Boolean      no_parallel;
260 #ifdef SGE_SUPPORT
261 extern Boolean      grid;
262 #endif
263 extern Name         no_parallel_name;
264 extern Name         not_auto;
265 extern Boolean      only_parallel;
266 extern Boolean      parallel;
267 extern Name         parallel_name;
268 extern Name         localhost_name;
269 extern int          parallel_process_cnt;
270 extern Percent      percent_list;
271 extern Dyntarget    dyntarget_list;
272 extern Name         plus;
273 extern Name         pmake_machinesfile;
274 extern Name         precious;
275 extern Name         primary_makefile;
276 extern Boolean      quest;
277 extern short        read_trace_level;
278 extern Boolean      reading_dependencies;
279 extern int          recursion_level;
280 extern Name         recursive_name;
281 extern short        report_dependencies_level;
282 extern Boolean      report_pwd;
283 extern Boolean      rewrite_statefile;
284 extern Running      running_list;
285 extern char         *sccs_dir_path;
286 extern Name         sccs_get_name;
287 extern Name         sccs_get_posix_name;
288 extern Cmd_line     sccs_get_rule;
289 extern Cmd_line     sccs_get_org_rule;
290 extern Cmd_line     sccs_get_posix_rule;
291 extern Name         get_name;
292 extern Name         get_posix_name;
293 extern Cmd_line     get_rule;
294 extern Cmd_line     get_posix_rule;
295 extern Boolean      send_mtool_msgs;
296 extern Boolean      all_precious;
297 extern Boolean      report_cwd;
298 extern Boolean      silent_all;
299 extern Boolean      silent;
300 extern Name         silent_name;
301 extern char         *stderr_file;
302 extern char         *stdout_file;
```

```

303 #ifdef SGE_SUPPORT
304 extern char script_file[];
305 #endif
306 extern Boolean stdout_stderr_same;
307 extern Dependency suffixes;
308 extern Name suffixes_name;
309 extern Name sunpro_dependencies;
310 extern Boolean target_variants;
311 extern const char *tmpdir;
312 extern const char *temp_file_directory;
311 extern char *tmpdir;
312 extern char *temp_file_directory;
313 extern Name temp_file_name;
314 extern short temp_file_number;
315 extern wchar_t *top_level_target;
316 extern Boolean touch;
317 extern Boolean trace_reader;
318 extern Boolean build_unconditional;
319 extern pathpt vroot_path;
320 extern Name wait_name;
321 extern wchar_t wcs_buffer2[];
322 extern wchar_t *wcs_ptr;
323 extern wchar_t *wcs_ptr2;
324 extern nl_catd catd;
325 extern long int hostid;

327 /*
328 * Declarations of system defined variables
329 */
330 #if !defined(linux)
331 /* On linux this variable is defined in 'signal.h' */
332 extern char *sys_siglist[];
333 #endif

335 /*
336 * Declarations of system supplied functions
337 */
338 extern int file_lock(char *, char *, int *, int);

340 /*
341 * Declarations of functions declared and used by make
342 */
343 extern void add_pending(Name target, int recursion_level, Boolean do
344 extern void add_running(Name target, Name true_target, Property comm
345 extern void add_serial(Name target, int recursion_level, Boolean do_
346 extern void add_subtree(Name target, int recursion_level, Boolean do
347 extern void append_or_replace_macro_in_dyn_array(ASCII_Dyn_Array *Ar
348 #ifdef DISTRIBUTED
349 extern Doname await_dist(Boolean waitflg);
350 #endif
351 #ifdef TEAMWARE_MAKE_CMN
352 extern void await_parallel(Boolean waitflg);
353 #endif
354 extern void build_suffix_list(Name target_suffix);
355 extern Boolean check_auto_dependencies(Name target, int auto_count, Nam
356 extern void check_state(Name temp_file_name);
357 extern void cond_macros_into_string(Name np, String_rec *buffer);
358 extern void construct_target_string();
359 extern void create_xdrs_ptr(void);
360 extern void depvar_add_to_list(Name name, Boolean cmdline);
361 #ifdef DISTRIBUTED
362 extern void distribute_rxm(Avo_DoJobMsg *dmake_job_msg);
363 extern int getRxmMessage(void);
364 extern Avo_JobResultMsg* getJobResultMsg(void);
365 extern Avo_AcknowledgeMsg* getAcknowledgeMsg(void);
366 #endif

```

```

367 extern Doname doname(register Name target, register Boolean do_get, re
368 extern Doname doname_check(register Name target, register Boolean do_g
369 extern Doname doname_parallel(Name target, Boolean do_get, Boolean imp
370 extern Doname dosys(register Name command, register Boolean ignore_err
371 extern void dump_make_state(void);
372 extern void dump_target_list(void);
373 extern void enter_conditional(register Name target, Name name, Name
374 extern void enter_dependencies(register Name target, Chain target_gr
375 extern void enter_dependency(Property line, register Name depe, Bool
376 extern void enter_equal(Name name, Name value, register Boolean appe
377 extern Percent enter_percent(register Name target, Chain target_group,
378 extern Dyntarget enter_dyntarget(register Name target);
379 extern Name_vector enter_name(String string, Boolean tail_present, register
380 extern Boolean exec_vp(register char *name, register char **argv, char
381 extern Doname execute_parallel(Property line, Boolean waitflg, Boolean
382 extern Doname execute_serial(Property line);
383 extern timestruc_t& exists(register Name target);
384 extern void fatal(char *, ...);
385 extern void fatal_reader(char *, ...);
386 extern Doname find_ar_suffix_rule(register Name target, Name true_targ
387 extern Doname find_double_suffix_rule(register Name target, Property *
388 extern Doname find_percent_rule(register Name target, Property *comman
389 extern int find_run_directory(char *cmd, char *cwd, char *dir, cha
390 extern Doname find_suffix_rule(Name target, Name target_body, Name tar
391 extern Chain find_target_groups(register Name_vector target_list, reg
392 extern void finish_children(Boolean docheck);
393 extern void finish_running(void);
394 extern void free_chain(Name_vector ptr);
395 extern void gather_recursive_deps(void);
396 extern char *get_current_path(void);
397 extern int get_job_msg_id(void);
398 extern FILE *get_mtool_msgs_fp(void);
399 #ifdef DISTRIBUTED
400 extern Boolean get_dmake_group_specified(void);
401 extern Boolean get_dmake_max_jobs_specified(void);
402 extern Boolean get_dmake_mode_specified(void);
403 extern Boolean get_dmake_odir_specified(void);
404 extern Boolean get_dmake_rcfile_specified(void);
405 extern Boolean get_pmake_machinesfile_specified(void);
406 #endif
407 #if defined(DISTRIBUTED) || defined(MAKETOOL) /* tolik */
408 extern XDR *get_xdrs_ptr(void);
409 #endif
410 extern wchar_t *getmem_wc(register int size);
411 #if !defined(linux)
412 /* On linux getwd(char *) is defined in 'unistd.h' */
413 #ifdef __cplusplus
414 extern "C" {
415 #endif
416 extern char *getwd(char *);
417 #ifdef __cplusplus
418 }

```

unchanged portion omitted

new/usr/src/cmd/make/include/mksh/misc.h

1

\*\*\*\*\*

2251 Wed May 20 11:22:26 2015

new/usr/src/cmd/make/include/mksh/misc.h

make: fix GCC warnings

\*\*\*\*\*

```
1 #ifndef _MKSH_MISC_H
2 #define _MKSH_MISC_H
3 /*
4  * CDDL HEADER START
5  *
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.
9  *
10 * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
11 * or http://www.opensolaris.org/os/licensing.
12 * See the License for the specific language governing permissions
13 * and limitations under the License.
14 *
15 * When distributing Covered Code, include this CDDL HEADER in each
16 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
17 * If applicable, add the following below this CDDL HEADER, with the
18 * fields enclosed by brackets "[]" replaced with your own identifying
19 * information: Portions Copyright [yyyy] [name of copyright owner]
20 *
21 * CDDL HEADER END
22 */
23 /*
24 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */
27
28 #include <mksh/defs.h>
29
30 extern void      append_char(wchar_t from, register String to);
31 extern Property append_prop(register Name target, register Property_id type);
32 extern void      append_string(register wchar_t *from, register String to, regist
33 extern void      enable_interrupt(register void (*handler) (int));
34 extern char      *errmsg(int errnum);
35 extern void      fatal_mksh(const char *message, ...);
36 extern void      fatal_reader_mksh(const char *pattern, ...);
35 extern void      fatal_mksh(char * message, ...);
36 extern void      fatal_reader_mksh(char * pattern, ...);
37 extern char      *get_current_path_mksh(void);
38 extern Property get_prop(register Property start, register Property_id type);
39 extern char      *getmem(register int size);
40 extern Name      getname_fn(wchar_t *name, register int len, register Boolean don
41 extern void      store_name(Name name);
42 extern void      free_name(Name name);
43 extern void      handle_interrupt_mksh(int);
44 extern Property maybe_append_prop(register Name target, register Property_id typ
45 extern void      retmem(wchar_t *p);
46 extern void      retmem_mb(caddr_t p);
47 extern void      setup_char_semantics(void);
48 extern void      setup_interrupt(register void (*handler) (int));
49 extern void      warning_mksh(char * message, ...);
50
51 extern void      append_string(register char *from, register String to, register
52 extern wchar_t   *get_wstring(char * from);
53
54
55 #endif
```

new/usr/src/cmd/make/include/vroot/report.h

1

\*\*\*\*\*

1755 Wed May 20 11:22:27 2015

new/usr/src/cmd/make/include/vroot/report.h

make: fix GCC warnings

\*\*\*\*\*

```
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 1994 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 */

26 #ifndef _REPORT_H_
27 #define _REPORT_H_

29 #include <stdio.h>

31 extern FILE      *get_report_file(void);
32 extern char      *get_target_being_reported_for(void);
33 extern void      report_dependency(const char *name);
33 extern void      report_dependency(register char *name);
34 extern int       file_lock(char *name, char *lockname, int *file_locked, int time
35 #ifdef NSE
36 extern char      *setenv(char *name, char *value);
37 #endif

39 #define SUNPRO_DEPENDENCIES "SUNPRO_DEPENDENCIES"
40 #define LD        "LD"
41 #define COMP      "COMP"

43 /* the following definitions define the interface between make and
44 * NSE - the two systems must track each other.
45 */
46 #define NSE_DEPINFO           ".nse_depinfo"
47 #define NSE_DEPINFO_LOCK     ".nse_depinfo.lock"
48 #define NSE_DEP_ENV          "NSE_DEP"
49 #define NSE_TFS_PUSH         "/usr/nse/bin/tfs_push"
50 #define NSE_TFS_PUSH_LEN     8
51 #define NSE_VARIANT_ENV      "NSE_VARIANT"
52 #define NSE_RT_SOURCE_NAME   "Shared_Source"

54 #endif
```

\*\*\*\*\*

2332 Wed May 20 11:22:27 2015

new/usr/src/cmd/make/include/vroot/vroot.h

make: fix GCC warnings

\*\*\*\*\*

unchanged portion omitted

```
39 typedef pathpt *pathpt;

41 extern void add_dir_to_path(const char *path, register pathpt *point
41 extern void add_dir_to_path(register char *path, register pathpt *po
42 extern void flush_path_cache(void);
43 extern void flush_vroot_cache(void);
44 extern const char *get_path_name(void);
44 extern char *get_path_name(void);
45 extern char *get_vroot_path(register char **vroot, register char **p
46 extern const char *get_vroot_name(void);
46 extern char *get_vroot_name(void);
47 extern int open_vroot(char *path, int flags, int mode, pathpt vroot
48 extern pathpt parse_path_string(register char *string, register int re
49 extern void scan_path_first(void);
50 extern void scan_vroot_first(void);
51 extern void set_path_style(int style);

53 extern int access_vroot(char *path, int mode, pathpt vroot_path, pa
55 extern int execve_vroot(char *path, char **argv, char **environ, pa

57 extern int lstat_vroot(char *path, struct stat *buffer, pathpt vroot
58 extern int stat_vroot(char *path, struct stat *buffer, pathpt vroot
59 extern int readlink_vroot(char *path, char *buffer, int buffer_size

62 extern nl_catd libvroot_catd;
63 #endif
```

```

*****
23005 Wed May 20 11:22:28 2015
new/usr/src/cmd/make/lib/mksh/dosys.cc
make: fix GCC warnings
*****
_____unchanged_portion_omitted_____

297 /*
298 *      doshell(command, ignore_error)
299 *
300 *      Used to run command lines that include shell meta-characters.
301 *      The make macro SHELL is supposed to contain a path to the shell.
302 *
303 *      Return value:
304 *
305 *          The pid of the process we started
306 *
307 *      Parameters:
308 *          command      The command to run
309 *          ignore_error  Should we abort on error?
310 *
311 *      Global variables used:
312 *          filter_stderr  If -X is on we redirect stderr
313 *          shell_name     The Name "SHELL", used to get the path to shell
314 */
315 doshell(wchar_t *command, register Boolean ignore_error, Boolean redirect_out_er
316 {
317     char          *argv[6];
318     int           argv_index = 0;
319     int           cmd_argv_index;
320     int           length;
321     char          nice_prio_buf[MAXPATHLEN];
322     register Name shell = getvar(shell_name);
323     register char *shellname;
324     char          *tmp_mbs_buffer;

327     if (IS_EQUAL(shell->string_mb, "")) {
328         shell = shell_name;
329     }
330     if ((shellname = strrchr(shell->string_mb, (int) slash_char)) == NULL) {
331         shellname = shell->string_mb;
332     } else {
333         shellname++;
334     }

336     /*
337     * Only prepend the /usr/bin/nice command to the original command
338     * if the nice priority, nice_prio, is NOT zero (0).
339     * Nice priorities can be a positive or a negative number.
340     */
341     if (nice_prio != 0) {
342         argv[argv_index++] = (char *)NOCATGETS("nice");
343         argv[argv_index++] = NOCATGETS("nice");
344         (void) sprintf(nice_prio_buf, NOCATGETS("-%d"), nice_prio);
345         argv[argv_index++] = strdup(nice_prio_buf);
346         argv[argv_index++] = shellname;
347 #if defined(linux)
348     if(0 == strcmp(shell->string_mb, (char*)NOCATGETS("/bin/sh"))) {
349         argv[argv_index++] = (char*)(ignore_error ? NOCATGETS("-c") : NO
350     } else {
351         argv[argv_index++] = (char*)NOCATGETS("-c");
352     }
353 #else
354     argv[argv_index++] = (char*)(ignore_error ? NOCATGETS("-c") : NOCATGETS(

```

```

355 #endif
356     if ((length = wslen(command)) >= MAXPATHLEN) {
357         tmp_mbs_buffer = getmem((length * MB_LEN_MAX) + 1);
358         (void) wcstombs(tmp_mbs_buffer, command, (length * MB_LEN_MAX) +
359         cmd_argv_index = argv_index;
360         argv[argv_index++] = strdup(tmp_mbs_buffer);
361         retmem_mb(tmp_mbs_buffer);
362     } else {
363         WCSTOMBS(mbs_buffer, command);
364         cmd_argv_index = argv_index;
365 #if defined(linux)
366         int mbl = strlen(mbs_buffer);
367         if(mbl > 2) {
368             if(mbs_buffer[mbl-1] == '\n' && mbs_buffer[mbl-2] == '\\
369                 mbs_buffer[mbl] = '\n';
370                 mbs_buffer[mbl+1] = 0;
371         }
372     }
373 #endif
374     argv[argv_index++] = strdup(mbs_buffer);
375 }
376 argv[argv_index] = NULL;
377 (void) fflush(stdout);
378 if ((childPid = fork()) == 0) {
379     enable_interrupt((void (*)(int)) SIG_DFL);
380     if (redirect_out_err) {
381         redirect_io(stdout_file, stderr_file);
382     }
383 #if 0
384     if (filter_stderr) {
385         redirect_stderr();
386     }
387 #endif
388     if (nice_prio != 0) {
389         (void) execve(NOCATGETS("/usr/bin/nice"), argv, environ)
390         fatal_mksh(catgets(libmksdmsil8n_catd, 1, 92, "Could not
391             errmsg(errno));
392     } else {
393         (void) execve(shell->string_mb, argv, environ);
394         fatal_mksh(catgets(libmksdmsil8n_catd, 1, 93, "Could not
395             shell->string_mb,
396             errmsg(errno));
397     }
398 }
399 if (childPid == -1) {
400     fatal_mksh(catgets(libmksdmsil8n_catd, 1, 94, "fork failed: %s")
401         errmsg(errno));
402 }
403 retmem_mb(argv[cmd_argv_index]);
404 return childPid;
405 }
_____unchanged_portion_omitted_____

```

```

*****
39291 Wed May 20 11:22:29 2015
new/usr/src/cmd/make/lib/mksh/macro.cc
make: fix GCC warnings
*****
1 /*
2  * CDDL HEADER START
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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 2006 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 */

27 /*
28 *      macro.cc
29 *
30 *      Handle expansion of make macros
31 */

33 /*
34 * Included files
35 */
36 #include <mksh/dosys.h>      /* sh_command2string() */
37 #include <mksh/il8n.h>      /* get_char_semantics_value() */
38 #include <mksh/macro.h>
39 #include <mksh/misc.h>      /* retmem() */
40 #include <mksh/read.h>      /* get_next_block_fn() */
41 #include <mkstdmsi18n/mkstdmsi18n.h> /* libmkstdmsi18n_init() */

43 #include <widerc.h>

45 #endif /* ! codereview */
46 /*
47 * File table of contents
48 */
49 static void      add_macro_to_global_list(Name macro_to_add);
50 #ifndef NSE
51 static void      expand_value_with_daemon(Name name, register Property macro, reg
52 #else
53 static void      expand_value_with_daemon(Name, register Property macro, register
54 #endif

56 static void      init_arch_macros(void);
57 static void      init_mach_macros(void);
58 static Boolean   init_arch_done = false;
59 static Boolean   init_mach_done = false;

```

```

62 long env_alloc_num = 0;
63 long env_alloc_bytes = 0;

65 /*
66 *      getvar(name)
67 *
68 *      Return expanded value of macro.
69 *
70 *      Return value:
71 *
72 *              The expanded value of the macro
73 *
74 *      Parameters:
75 *              name          The name of the macro we want the value for
76 *
77 *      Global variables used:
78 */
79 Name
80 getvar(register Name name)
81 {
82     String_rec      destination;
83     wchar_t         buffer[STRING_BUFFER_LENGTH];
84     register Name   result;

85     if ((name == host_arch) || (name == target_arch)) {
86         if (!init_arch_done) {
87             init_arch_done = true;
88             init_arch_macros();
89         }
90     }
91     if ((name == host_mach) || (name == target_mach)) {
92         if (!init_mach_done) {
93             init_mach_done = true;
94             init_mach_macros();
95         }
96     }

98     INIT_STRING_FROM_STACK(destination, buffer);
99     expand_value(maybe_append_prop(name, macro_prop)->body.macro.value,
100                &destination,
101                false);
102     result = GETNAME(destination.buffer.start, FIND_LENGTH);
103     if (destination.free_after_use) {
104         retmem(destination.buffer.start);
105     }
106     return result;
107 }

109 /*
110 *      expand_value(value, destination, cmd)
111 *
112 *      Recursively expands all macros in the string value.
113 *      destination is where the expanded value should be appended.
114 *
115 *      Parameters:
116 *              value          The value we are expanding
117 *              destination    Where to deposit the expansion
118 *              cmd            If we are evaluating a command line we
119 *                            turn \ quoting off
120 *
121 *      Global variables used:
122 */
123 void
124 expand_value(Name value, register String destination, Boolean cmd)
125 {
126     Source_rec      sourcecb;
127     register Source source = &sourcecb;

```

```

128 register wchar_t *source_p = NULL;
129 register wchar_t *source_end = NULL;
130 wchar_t *block_start = NULL;
131 int quote_seen = 0;

133 if (value == NULL) {
134     /*
135      * Make sure to get a string allocated even if it
136      * will be empty.
137      */
138     MBSTOWCS(wcs_buffer, "");
139     append_string(wcs_buffer, destination, FIND_LENGTH);
140     destination->text.end = destination->text.p;
141     return;
142 }
143 if (!value->dollar) {
144     /*
145      * If the value we are expanding does not contain
146      * any $, we don't have to parse it.
147      */
148     APPEND_NAME(value,
149                destination,
150                (int) value->hash.length
151            );
152     destination->text.end = destination->text.p;
153     return;
154 }

156 if (value->being_expanded) {
157     fatal_reader_mksh(catgets(libmkdsmsi18n_catd, 1, 113, "Loop dete
158     value->string_mb);
159 }
160 value->being_expanded = true;
161 /* Setup the structure we read from */
162 Wstring vals(value);
163 sourcecb.string.text.p = sourcecb.string.buffer.start = wsdup(vals.get_str
164 sourcecb.string.free_after_use = true;
165 sourcecb.string.text.end =
166     sourcecb.string.buffer.end =
167     sourcecb.string.text.p + value->hash.length;
168 sourcecb.previous = NULL;
169 sourcecb.fd = -1;
170 sourcecb.inp_buf =
171     sourcecb.inp_buf_ptr =
172     sourcecb.inp_buf_end = NULL;
173 sourcecb.error_converting = false;
174 /* Lift some pointers from the struct to local register variables */
175 CACHE_SOURCE(0);
176 /* We parse the string in segments */
177 /* We read chars until we find a $, then we append what we have read so far */
178 /* (since last $ processing) to the destination. When we find a $ we call */
179 /* expand_macro() and let it expand that particular $ reference into dest */
180 block_start = source_p;
181 quote_seen = 0;
182 for (; 1; source_p++) {
183     switch (GET_CHAR()) {
184     case backslash_char:
185         /* Quote $ in macro value */
186         if (!cmd) {
187             quote_seen = ~quote_seen;
188         }
189         continue;
190     case dollar_char:
191         /* Save the plain string we found since */
192         /* start of string or previous $ */
193         if (quote_seen) {

```

```

194     append_string(block_start,
195                  destination,
196                  source_p - block_start - 1);
197     block_start = source_p;
198     break;
199 }
200 append_string(block_start,
201              destination,
202              source_p - block_start);
203 source->string.text.p = ++source_p;
204 UNCACHE_SOURCE();
205 /* Go expand the macro reference */
206 expand_macro(source, destination, sourcecb.string.buffer.
207 CACHE_SOURCE(1);
208 block_start = source_p + 1;
209 break;
210 case nul_char:
211     /* The string ran out. Get some more */
212     append_string(block_start,
213                  destination,
214                  source_p - block_start);
215     GET_NEXT_BLOCK_NOCHK(source);
216     if (source == NULL) {
217         destination->text.end = destination->text.p;
218         value->being_expanded = false;
219         return;
220     }
221     if (source->error_converting) {
222         fatal_reader_mksh(NOCATGETS("Internal error: Inv
223     }
224     block_start = source_p;
225     source_p--;
226     continue;
227 }
228 quote_seen = 0;
229 }
230 retmem(sourcecb.string.buffer.start);
231 }

233 /*
234 *
235 *
236 *
237 *
238 *
239 *
240 *
241 *
242 *
243 *
244 *
245 *
246 *
247 *
248 *
249 *
250 *
251 *
252 *
253 *
254 *
255 *
256 *
257 *
258 *
259 *

```

expand\_macro(source, destination, current\_string, cmd)

Should be called with source->string.text.p pointing to the first char after the \$ that starts a macro reference. source->string.text.p is returned pointing to the first char after the macro name.

It will read the macro name, expanding any macros in it, and get the value. The value is then expanded. destination is a String that is filled in with the expanded macro. It may be passed in referencing a buffer to expand the macro into. Note that most expansions are done on demand, e.g. right before the command is executed and not while the file is being parsed.

Parameters:

source	The source block that references the string to expand
destination	Where to put the result
current_string	The string we are expanding, for error msg
cmd	If we are evaluating a command line we turn \ quoting off

Global variables used:

funny	Vector of semantic tags for characters
is_conditional	Set if a conditional macro is refd
make_word_mentioned	Set if the word "MAKE" is mentioned

```

260 *         makefile_type  We deliver extra msg when reading makefiles
261 *         query           The Name "?", compared against
262 *         query_mentioned Set if the word "?" is mentioned
263 */
264 void
265 expand_macro(register Source source, register String destination, wchar_t *curre
266 {
267     static Name          make = (Name)NULL;
268     static wchar_t      colon_sh[4];
269     static wchar_t      colon_shell[7];
270     String_rec          string;
271     wchar_t             buffer[STRING_BUFFER_LENGTH];
272     register wchar_t    *source_p = source->string.text.p;
273     register wchar_t    *source_end = source->string.text.end;
274     register int        closer = 0;
275     wchar_t             *block_start = (wchar_t *)NULL;
276     int                 quote_seen = 0;
277     register int        closer_level = 1;
278     Name                name = (Name)NULL;
279     wchar_t             *colon = (wchar_t *)NULL;
280     wchar_t             *percent = (wchar_t *)NULL;
281     wchar_t             *eq = (wchar_t *) NULL;
282     Property            macro = NULL;
283     wchar_t             *p = (wchar_t*)NULL;
284     String_rec          extracted;
285     wchar_t             extracted_string[MAXPATHLEN];
286     wchar_t             *left_head = NULL;
287     wchar_t             *left_tail = NULL;
288     wchar_t             *right_tail = NULL;
289     int                 left_head_len = 0;
290     int                 left_tail_len = 0;
291     int                 tmp_len = 0;
292     wchar_t             *right_hand[128];
293     int                 i = 0;
294     enum {
295         no_extract,
296         dir_extract,
297         file_extract
298     } extraction = no_extract;
299     enum {
300         no_replace,
301         suffix_replace,
302         pattern_replace,
303         sh_replace
304     } replacement = no_replace;
305
306     if (make == NULL) {
307         MBSTOWCS(wcs_buffer, NOCATGETS("MAKE"));
308         make = GETNAME(wcs_buffer, FIND_LENGTH);
309
310         MBSTOWCS(colon_sh, NOCATGETS(":sh"));
311         MBSTOWCS(colon_shell, NOCATGETS(":shell"));
312     }
313
314     right_hand[0] = NULL;
315
316     /* First copy the (macro-expanded) macro name into string. */
317     INIT_STRING_FROM_STACK(string, buffer);
318     recheck_first_char:
319     /* Check the first char of the macro name to figure out what to do. */
320     switch (GET_CHAR()) {
321     case nul_char:
322         GET_NEXT_BLOCK_NOCHK(source);
323         if (source == NULL) {
324             WCSTOMBS(mbs_buffer, current_string);
325             fatal_reader_mksh(catgets(libmksdmsi18n_catd, 1, 114, "'

```

```

326         mbs_buffer);
327     }
328     if (source->error_converting) {
329         fatal_reader_mksh(NOCATGETS("Internal error: Invalid byt
330     }
331     goto recheck_first_char;
332 case parenleft_char:
333     /* Multi char name. */
334     closer = (int) parenright_char;
335     break;
336 case braceleft_char:
337     /* Multi char name. */
338     closer = (int) braceright_char;
339     break;
340 case newline_char:
341     fatal_reader_mksh(catgets(libmksdmsi18n_catd, 1, 115, "'$' at en
342 default:
343     /* Single char macro name. Just suck it up */
344     append_char(*source_p, &string);
345     source->string.text.p = source_p + 1;
346     goto get_macro_value;
347 }
348
349 /* Handle multi-char macro names */
350 block_start = ++source_p;
351 quote_seen = 0;
352 for (; 1; source_p++) {
353     switch (GET_CHAR()) {
354     case nul_char:
355         append_string(block_start,
356             &string,
357             source_p - block_start);
358         GET_NEXT_BLOCK_NOCHK(source);
359         if (source == NULL) {
360             if (current_string != NULL) {
361                 WCSTOMBS(mbs_buffer, current_string);
362                 fatal_reader_mksh(catgets(libmksdmsi18n_
363                     closer ==
364                     (int) braceright_char ?
365                     (int) braceleft_char :
366                     (int) parenleft_char,
367                     mbs_buffer);
368             } else {
369                 fatal_reader_mksh(catgets(libmksdmsi18n_
370             }
371         }
372         if (source->error_converting) {
373             fatal_reader_mksh(NOCATGETS("Internal error: Inv
374         }
375         block_start = source_p;
376         source_p--;
377         continue;
378     case newline_char:
379         fatal_reader_mksh(catgets(libmksdmsi18n_catd, 1, 118, "U
380         closer == (int) braceright_char ?
381         (int) braceleft_char :
382         (int) parenleft_char);
383     case backslash_char:
384         /* Quote dollar in macro value. */
385         if (!cmd) {
386             quote_seen = ~quote_seen;
387         }
388         continue;
389     case dollar_char:
390         /*
391         * Macro names may reference macros.

```



```

524         fatal_reader_mksh(catgets(libmksdmsi18n_catd, 1,
525         }
526         if ((percent = (wchar_t *) wschr(colon + 1,
527         (int) percent_char)) ==
528         fatal_reader_mksh(catgets(libmksdmsi18n_catd, 1,
529         }
530         if (eq < percent) {
531         fatal_reader_mksh(catgets(libmksdmsi18n_catd, 1,
532         }

534         if (percent > (colon + 1)) {
535         tmp_len = percent - colon;
536         if(left_head) {
537         retmem(left_head);
538         }
539         left_head = ALLOC_WC(tmp_len);
540         (void) wncpy(left_head,
541         colon + 1,
542         percent - colon - 1);
543         left_head[percent-colon-1] = (int) nul_char;
544         left_head_len = percent-colon-1;
545         } else {
546         left_head = NULL;
547         left_head_len = 0;
548         }

550         if (eq > percent+1) {
551         tmp_len = eq - percent;
552         if(left_tail) {
553         retmem(left_tail);
554         }
555         left_tail = ALLOC_WC(tmp_len);
556         (void) wncpy(left_tail,
557         percent + 1,
558         eq - percent - 1);
559         left_tail[eq-percent-1] = (int) nul_char;
560         left_tail_len = eq-percent-1;
561         } else {
562         left_tail = NULL;
563         left_tail_len = 0;
564         }

566         if ((percent = (wchar_t *) wschr(++eq,
567         (int) percent_char)) ==

569         right_hand[0] = ALLOC_WC(wslen(eq) + 1);
570         right_hand[1] = NULL;
571         (void) wscopy(right_hand[0], eq);
572         } else {
573         i = 0;
574         do {
575         right_hand[i] = ALLOC_WC(percent-eq+1);
576         (void) wncpy(right_hand[i],
577         eq,
578         percent - eq);
579         right_hand[i][percent-eq] =
580         (int) nul_char;
581         if (i++ >= VSIZEOF(right_hand)) {
582         fatal_mksh(catgets(libmksdmsi18n
583         }
584         eq = percent + 1;
585         if (eq[0] == (int) nul_char) {
586         MBSTOWCS(wcs_buffer, "");
587         right_hand[i] = (wchar_t *) wsdu
588         i++;
589         break;

```

```

590         }
591         } while ((percent = (wchar_t *) wschr(eq, (int)
592         if (eq[0] != (int) nul_char) {
593         right_hand[i] = ALLOC_WC(wslen(eq) + 1);
594         (void) wscopy(right_hand[i], eq);
595         i++;
596         }
597         right_hand[i] = NULL;
598         }
599         replacement = pattern_replace;
600         }
601         }
602         if (name == NULL) {
603         /*
604         * No translations found.
605         * Use the whole string as the macro name.
606         */
607         name = GETNAME(string.buffer.start,
608         string.text.p - string.buffer.start);
609         }
610         if (string.free_after_use) {
611         retmem(string.buffer.start);
612         }
613         if (name == make) {
614         make_word_mentioned = true;
615         }
616         if (name == query) {
617         query_mentioned = true;
618         }
619         if ((name == host_arch) || (name == target_arch)) {
620         if (!init_arch_done) {
621         init_arch_done = true;
622         init_arch_macros();
623         }
624         }
625         if ((name == host_mach) || (name == target_mach)) {
626         if (!init_mach_done) {
627         init_mach_done = true;
628         init_mach_macros();
629         }
630         }
631         /* Get the macro value. */
632         macro = get_prop(name->prop, macro_prop);
633         #ifndef NSE
634         if (nse_watch_vars && nse && macro != NULL) {
635         if (macro->body.macro.imported) {
636         nse_shell_var_used= name;
637         }
638         if (macro->body.macro.value != NULL){
639         if (nse_backquotes(macro->body.macro.value->string)) {
640         nse_backquote_seen= name;
641         }
642         }
643         }
644         #endif
645         if ((macro != NULL) && macro->body.macro.is_conditional) {
646         conditional_macro_used = true;
647         /*
648         * Add this conditional macro to the beginning of the
649         * global list.
650         */
651         add_macro_to_global_list(name);
652         if (makefile_type == reading_makefile) {
653         warning_mksh(catgets(libmksdmsi18n_catd, 1, 164, "Condit
654         name->string_mb, file_being_read, line_n
655         }

```

```

656     }
657     /* Macro name read and parsed. Expand the value. */
658     if ((macro == NULL) || (macro->body.macro.value == NULL)) {
659         /* If the value is empty, we just get out of here. */
660         goto exit;
661     }
662     if (replacement == sh_replace) {
663         /* If we should do a :sh transform, we expand the command
664          * and process it.
665          */
666         INIT_STRING_FROM_STACK(string, buffer);
667         /* Expand the value into a local string buffer and run cmd. */
668         expand_value_with_daemon(name, macro, &string, cmd);
669         sh_command2string(&string, destination);
670     } else if ((replacement != no_replace) || (extraction != no_extract)) {
671         /*
672          * If there were any transforms specified in the macro
673          * name, we deal with them here.
674          */
675         INIT_STRING_FROM_STACK(string, buffer);
676         /* Expand the value into a local string buffer. */
677         expand_value_with_daemon(name, macro, &string, cmd);
678         /* Scan the expanded string. */
679         p = string.buffer.start;
680         while (*p != (int) nul_char) {
681             wchar_t chr;
682
683             /*
684              * First skip over any white space and append
685              * that to the destination string.
686              */
687             block_start = p;
688             while ((*p != (int) nul_char) && iswspace(*p)) {
689                 p++;
690             }
691             append_string(block_start,
692                          destination,
693                          p - block_start);
694             /* Then find the end of the next word. */
695             block_start = p;
696             while ((*p != (int) nul_char) && !iswspace(*p)) {
697                 p++;
698             }
699             /* If we cant find another word we are done */
700             if (block_start == p) {
701                 break;
702             }
703             /* Then apply the transforms to the word */
704             INIT_STRING_FROM_STACK(extracted, extracted_string);
705             switch (extraction) {
706             case dir_extract:
707                 /*
708                  * $(@D) type transform. Extract the
709                  * path from the word. Deliver "." if
710                  * none is found.
711                  */
712                 if (p != NULL) {
713                     chr = *p;
714                     *p = (int) nul_char;
715                 }
716                 eq = (wchar_t *) wsrchr(block_start, (int) slash)
717                 if (p != NULL) {
718                     *p = chr;
719                 }
720                 if ((eq == NULL) || (eq > p)) {
721                     MBSTOWCS(wcs_buffer, ".");

```

```

722             append_string(wcs_buffer, &extracted, 1)
723         } else {
724             append_string(block_start,
725                          &extracted,
726                          eq - block_start);
727         }
728         break;
729     case file_extract:
730         /*
731          * $(@F) type transform. Remove the path
732          * from the word if any.
733          */
734         if (p != NULL) {
735             chr = *p;
736             *p = (int) nul_char;
737         }
738         eq = (wchar_t *) wsrchr(block_start, (int) slash)
739         if (p != NULL) {
740             *p = chr;
741         }
742         if ((eq == NULL) || (eq > p)) {
743             append_string(block_start,
744                          &extracted,
745                          p - block_start);
746         } else {
747             append_string(eq + 1,
748                          &extracted,
749                          p - eq - 1);
750         }
751         break;
752     case no_extract:
753         append_string(block_start,
754                      &extracted,
755                      p - block_start);
756         break;
757     }
758     switch (replacement) {
759     case suffix_replace:
760         /*
761          * $(FOO:.o=.c) type transform.
762          * Maybe replace the tail of the word.
763          */
764         if (((extracted.text.p -
765              extracted.buffer.start) >=
766             left_tail_len) &&
767             IS_WEQUALN(extracted.text.p - left_tail_len,
768                       left_tail,
769                       left_tail_len)) {
770             append_string(extracted.buffer.start,
771                          destination,
772                          (extracted.text.p -
773                           extracted.buffer.start)
774                          - left_tail_len);
775             append_string(right_tail,
776                          destination,
777                          FIND_LENGTH);
778         } else {
779             append_string(extracted.buffer.start,
780                          destination,
781                          FIND_LENGTH);
782         }
783         break;
784     case pattern_replace:
785         /* $(X:a%b=c%d) type transform. */
786         if (((extracted.text.p -
787             extracted.buffer.start) >=

```

```

788     left_head_len+left_tail_len) &&
789     IS_WEQUALN(left_head,
790     extracted.buffer.start,
791     left_head_len) &&
792     IS_WEQUALN(left_tail,
793     extracted.text.p - left_tail_len,
794     left_tail_len)) {
795         i = 0;
796         while (right_hand[i] != NULL) {
797             append_string(right_hand[i],
798             destination,
799             FIND_LENGTH);
800             i++;
801             if (right_hand[i] != NULL) {
802                 append_string(extracted.
803                 start +
804                 left_head_
805                 destinatio
806                 (extracted
807                 )
808             }
809         } else {
810             append_string(extracted.buffer.start,
811             destination,
812             FIND_LENGTH);
813         }
814         break;
815     case no_replace:
816         append_string(extracted.buffer.start,
817         destination,
818         FIND_LENGTH);
819         break;
820     case sh_replace:
821         break;
822     }
823     if (string.free_after_use) {
824         retmem(string.buffer.start);
825     }
826 } else {
827     /*
828     * This is for the case when the macro name did not
829     * specify transforms.
830     */
831     if (!strncmp(name->string_mb, NOCATGETS("GET"), 3)) {
832         dollarget_seen = true;
833     }
834     dollarless_flag = false;
835     if (!strncmp(name->string_mb, "<", 1) &&
836     dollarget_seen) {
837         dollarless_flag = true;
838         dollarget_seen = false;
839     }
840     expand_value_with_daemon(name, macro, destination, cmd);
841 }
842 }
843 exit:
844 if(left_tail) {
845     retmem(left_tail);
846 }
847 if(right_tail) {
848     retmem(right_tail);
849 }
850 if(left_head) {
851     retmem(left_head);
852 }
853 i = 0;

```

```

854     while (right_hand[i] != NULL) {
855         retmem(right_hand[i]);
856         i++;
857     }
858     *destination->text.p = (int) nul_char;
859     destination->text.end = destination->text.p;
860 }
861
862 static void
863 add_macro_to_global_list(Name macro_to_add)
864 {
865     Macro_list    new_macro;
866     Macro_list    macro_on_list;
867     char          *name_on_list = (char*)NULL;
868     char          *name_to_add = macro_to_add->string_mb;
869     char          *value_on_list = (char*)NULL;
870     const char    *value_to_add = (char*)NULL;
871     char          *value_to_add = (char*)NULL;
872
873     if (macro_to_add->prop->body.macro.value != NULL) {
874         value_to_add = macro_to_add->prop->body.macro.value->string_mb;
875     } else {
876         value_to_add = "";
877     }
878
879     /*
880     * Check if this macro is already on list, if so, do nothing
881     */
882     for (macro_on_list = cond_macro_list;
883         macro_on_list != NULL;
884         macro_on_list = macro_on_list->next) {
885         name_on_list = macro_on_list->macro_name;
886         value_on_list = macro_on_list->value;
887
888         if (IS_EQUAL(name_on_list, name_to_add)) {
889             if (IS_EQUAL(value_on_list, value_to_add)) {
890                 return;
891             }
892         }
893     }
894     new_macro = (Macro_list) malloc(sizeof(Macro_list_rec));
895     new_macro->macro_name = strdup(name_to_add);
896     new_macro->value = strdup(value_to_add);
897     new_macro->next = cond_macro_list;
898     cond_macro_list = new_macro;
899 }

```

unchanged\_portion\_omitted

```

*****
25884 Wed May 20 11:22:29 2015
new/usr/src/cmd/make/lib/mksh/misc.cc
make: fix GCC warnings
*****
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 2004 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 */

27 /*
28  *      misc.cc
29  *
30  *      This file contains various unclassified routines. Some main groups:
31  *          getname
32  *          Memory allocation
33  *          String handling
34  *          Property handling
35  *          Error message handling
36  *          Make internal state dumping
37  *          main routine support
38  */

40 /*
41  * Included files
42  */
43 #include <bsd/bsd.h>          /* bsd_signal() */
44 #include <mksh/il8n.h>       /* get_char_semantics_value() */
45 #include <mksh/misc.h>
46 #include <mkstdmsil8n/mkstdmsil8n.h>
47 #include <stdarg.h>          /* va_list, va_start(), va_end() */
48 #include <stdlib.h>           /* mbstowcs() */
49 #include <sys/signal.h>      /* SIG_DFL */
50 #include <sys/wait.h>        /* wait() */

52 #ifdef SUN5_0
53 #include <string.h>          /* strerror() */
54 #endif

56 #if defined (HP_UX) || defined (linux)
57 #include <unistd.h>
58 #endif

60 /*
61  * Defined macros

```

```

62 */
63
64 /*
65  * typedefs & structs
66  */

68 /*
69  * Static variables
70  */
71 #ifdef SUN5_0
72 extern "C" {
73     void (*sigvalue)(int) = SIG_DFL;
74     void (*sigqvalue)(int) = SIG_DFL;
75     void (*sigtvalue)(int) = SIG_DFL;
76     void (*sighvalue)(int) = SIG_DFL;
77 }
78 #else
79 static void (*sigvalue)(int) = (void (*) (int)) SIG_DFL;
80 static void (*sigqvalue)(int) = (void (*) (int)) SIG_DFL;
81 static void (*sigtvalue)(int) = (void (*) (int)) SIG_DFL;
82 static void (*sighvalue)(int) = (void (*) (int)) SIG_DFL;
83 #endif

85 long  getname_bytes_count = 0;
86 long  getname_names_count = 0;
87 long  getname_struct_count = 0;

89 long  freename_bytes_count = 0;
90 long  freename_names_count = 0;
91 long  freename_struct_count = 0;

93 long  expandstring_count = 0;
94 long  getwstring_count = 0;

96 /*
97  * File table of contents
98  */
99 static void  expand_string(register String string, register int length);

101 #define FATAL_ERROR_MSG_SIZE 200

103 /*
104  *      getmem(size)
105  *
106  *      malloc() version that checks the returned value.
107  *
108  *      Return value:
109  *          The memory chunk we allocated
110  *
111  *      Parameters:
112  *          size          The size of the chunk we need
113  *
114  *      Global variables used:
115  */
116 char *
117 getmem(register int size)
118 {
119     register char *result = (char *) malloc((unsigned) size);
120     if (result == NULL) {
121         char buf[FATAL_ERROR_MSG_SIZE];
122         sprintf(buf, NOCATGETS("*** Error: malloc(%d) failed: %s\n"), si
123             strcat(buf, catgets(libmkstdmsil8n_catd, 1, 126, "mksh: Fatal err

```

```

124         fputs(buf, stderr);
125 #ifdef SUN5_0
126         exit_status = 1;
127 #endif
128         exit(1);
129     }
130     return result;
131 }
    unchanged_portion_omitted

317 /*
318 *     setup_char_semantics()
319 *
320 *     Load the vector char_semantics[] with lexical markers
321 *
322 *     Parameters:
323 *
324 *     Global variables used:
325 *         char_semantics  The vector of character semantics that we set
326 */
327 void
328 setup_char_semantics(void)
329 {
330     const char    *s;
331     char          *s;
332     wchar_t      wc_buffer[1];
333     int           entry;

334     if (svr4) {
335         s = "@-";
336     } else {
337         s = "@-?!+";
338     }
339     for (s; MBTOWC(wc_buffer, s); s++) {
340         entry = get_char_semantics_entry(*wc_buffer);
341         char_semantics[entry] |= (int) command_prefix_sem;
342     }
343     char_semantics[dollar_char_entry] |= (int) dollar_sem;
344     for (s = "#|=^();&<?*?[:]:$'\"\\\n"; MBTOWC(wc_buffer, s); s++) {
345         entry = get_char_semantics_entry(*wc_buffer);
346         char_semantics[entry] |= (int) meta_sem;
347     }
348     char_semantics[percent_char_entry] |= (int) percent_sem;
349     for (s = "@*%?^"; MBTOWC(wc_buffer, s); s++) {
350         entry = get_char_semantics_entry(*wc_buffer);
351         char_semantics[entry] |= (int) special_macro_sem;
352     }
353     for (s = "?[*"; MBTOWC(wc_buffer, s); s++) {
354         entry = get_char_semantics_entry(*wc_buffer);
355         char_semantics[entry] |= (int) wildcard_sem;
356     }
357     char_semantics[colon_char_entry] |= (int) colon_sem;
358     char_semantics[parenleft_char_entry] |= (int) parenleft_sem;
359 }
    unchanged_portion_omitted

405 static char static_buf[MAXPATHLEN*3];

407 /*
408 *     fatal_mksh(format, args...)
409 *
410 *     Print a message and die
411 *
412 *     Parameters:
413 *         format      printf type format string
414 *         args        Arguments to match the format

```

```

415 */
416 /*VARARGS*/
417 void
418 fatal_mksh(const char *message, ...)
419 fatal_mksh(char * message, ...)
420 {
421     va_list args;
422     char    *buf = static_buf;
423     char    *mksh_fat_err = catgets(libmkstdmsil8n_catd, 1, 128, "mksh: Fatal
424     char    *cur_wrk_dir = catgets(libmkstdmsil8n_catd, 1, 129, "Current work
425     int     mksh_fat_err_len = strlen(mksh_fat_err);

426     va_start(args, message);
427     (void) fflush(stdout);
428     (void) strcpy(buf, mksh_fat_err);
429     size_t buf_len = vsnprintf(static_buf + mksh_fat_err_len,
430     sizeof(static_buf) - mksh_fat_err_len,
431     message, args)
432     + mksh_fat_err_len
433     + strlen(cur_wrk_dir)
434     + strlen(get_current_path_mksh())
435     + 3; // "\n\n"
436     va_end(args);
437     if (buf_len >= sizeof(static_buf)) {
438         buf = getmem(buf_len);
439         (void) strcpy(buf, mksh_fat_err);
440         va_start(args, message);
441         (void) vsprintf(buf + mksh_fat_err_len, message, args);
442         va_end(args);
443     }
444     (void) strcat(buf, "\n");
445 /*
446     if (report_pwd) {
447 *
448     if (1) {
449         (void) strcat(buf, cur_wrk_dir);
450         (void) strcat(buf, get_current_path_mksh());
451         (void) strcat(buf, "\n");
452     }
453     (void) fputs(buf, stderr);
454     (void) fflush(stderr);
455     if (buf != static_buf) {
456         retmem_mb(buf);
457     }
458 #ifdef SUN5_0
459     exit_status = 1;
460 #endif
461     exit(1);
462 }

464 /*
465 *     fatal_reader_mksh(format, args...)
466 *
467 *     Parameters:
468 *         format      printf style format string
469 *         args        arguments to match the format
470 */
471 /*VARARGS*/
472 void
473 fatal_reader_mksh(const char * pattern, ...)
474 fatal_reader_mksh(char * pattern, ...)
475 {
476     va_list args;
477     char    message[1000];

478     va_start(args, pattern);

```

```
479 /*
480     if (file_being_read != NULL) {
481         WCSTOMBS(mbs_buffer, file_being_read);
482         if (line_number != 0) {
483             (void) sprintf(message,
484                 catgets(libmksdmsil8n_catd, 1, 130, "%s,
485                 mbs_buffer,
486                 line_number,
487                 pattern);
488             } else {
489                 (void) sprintf(message,
490                     "%s: %s",
491                     mbs_buffer,
492                     pattern);
493             }
494             pattern = message;
495         }
496     */
498     (void) fflush(stdout);
499     (void) fprintf(stderr, catgets(libmksdmsil8n_catd, 1, 131, "mksh: Fatal
500     (void) vfprintf(stderr, pattern, args);
501     (void) fprintf(stderr, "\n");
502     va_end(args);
504 /*
505     if (temp_file_name != NULL) {
506         (void) fprintf(stderr,
507             catgets(libmksdmsil8n_catd, 1, 132, "mksh: Temp-f
508             temp_file_name->string_mb);
509         temp_file_name = NULL;
510     }
511 */
513 /*
514     if (report_pwd) {
515     */
516         if (1) {
517             (void) fprintf(stderr,
518                 catgets(libmksdmsil8n_catd, 1, 133, "Current work
519                 get_current_path_mksh());
520             }
521             (void) fflush(stderr);
522 #ifdef SUN5_0
523             exit_status = 1;
524 #endif
525             exit(1);
526 }
unchanged_portion_omitted
```

new/usr/src/cmd/make/lib/vroot/lock.cc

1

```
*****
5519 Wed May 20 11:22:30 2015
new/usr/src/cmd/make/lib/vroot/lock.cc
make: fix GCC warnings
*****
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 2004 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 */

26 #include <avo/intl.h> /* for NOCATGETS */
27 #include <stdio.h>
28 #include <stdlib.h>
29 #include <string.h>
30 #include <sys/errno.h>
31 #include <sys/param.h>
32 #include <sys/stat.h>
33 #include <sys/types.h>
34 #include <unistd.h>
35 #include <vroot/vroot.h>
36 #include <mksdms18n/mksdms18n.h>
37 #include <signal.h>
38 #include <errno.h> /* errno */

40 #if !defined(linux)
41 extern char *sys_errlist[];
42 extern int sys_nerr;
43 #endif

45 static void file_lock_error(char *msg, char *file, char *str, int ar

47 #define BLOCK_INTERRUPTS sigfillset(&newset); \
48 sigprocmask(SIG_SETMASK, &newset, &oldset)

50 #define UNBLOCK_INTERRUPTS \
51 sigprocmask(SIG_SETMASK, &oldset, &newset)

53 /*
54 * This code stolen from the NSE library and changed to not depend
55 * upon any NSE routines or header files.
56 *
57 * Simple file locking.
58 * Create a symlink to a file. The "test and set" will be
59 * atomic as creating the symlink provides both functions.
60 *
61 * The timeout value specifies how long to wait for stale locks
```

new/usr/src/cmd/make/lib/vroot/lock.cc

2

```
62 * to disappear. If the lock is more than 'timeout' seconds old
63 * then it is ok to blow it away. This part has a small window
64 * of vulnerability as the operations of testing the time,
65 * removing the lock and creating a new one are not atomic.
66 * It would be possible for two processes to both decide to blow
67 * away the lock and then have process A remove the lock and establish
68 * its own, and then then have process B remove the lock which accidentally
69 * removes A's lock rather than the stale one.
70 *
71 * A further complication is with the NFS. If the file in question is
72 * being served by an NFS server, then its time is set by that server.
73 * We can not use the time on the client machine to check for a stale
74 * lock. Therefore, a temp file on the server is created to get
75 * the servers current time.
76 *
77 * Returns an error message. NULL return means the lock was obtained.
78 *
79 * 12/6/91 Added the parameter "file_locked". Before this parameter
80 * was added, the calling procedure would have to wait for file_lock()
81 * to return before it sets the flag. If the user interrupted "make"
82 * between the time the lock was acquired and the time file_lock()
83 * returns, make wouldn't know that the file has been locked, and therefore
84 * it wouldn't remove the lock. Setting the flag right after locking the file
85 * makes this window much smaller.
86 */

88 int
89 file_lock(char *name, char *lockname, int *file_locked, int timeout)
90 {
91     int counter = 0;
92     static char msg[MAXPATHLEN+1];
93     int printed_warning = 0;
94     int r;
95     struct stat statb;
96     sigset_t newset;
97     sigset_t oldset;

99     *file_locked = 0;
100     if (timeout <= 0) {
101         timeout = 120;
102     }
103     for (;;) {
104         BLOCK_INTERRUPTS;
105         r = symlink(name, lockname);
106         if (r == 0) {
107             *file_locked = 1;
108             UNBLOCK_INTERRUPTS;
109             return 0; /* success */
110         }
111         UNBLOCK_INTERRUPTS;

113         if (errno != EEXIST) {
114             file_lock_error(msg, name, (char *)NOCATGETS("symlink(%s
115             file_lock_error(msg, name, NOCATGETS("symlink(%s, %s)"),
116             (int) name, (int) lockname);
117             fprintf(stderr, "%s", msg);
118             return errno;
119         }

120         counter = 0;
121         for (;;) {
122             sleep(1);
123             r = lstat(lockname, &statb);
124             if (r == -1) {
125                 /*
126                  * The lock must have just gone away - try
```

```
127         * again.
128         */
129         break;
130     }

132         if ((counter > 5) && (!printed_warning)) {
133             /* Print waiting message after 5 secs */
134             #if defined(SUN5_0) || defined(HP_UX) || defined(linux)
135                 (void) getcwd(msg, MAXPATHLEN);
136             #else
137                 (void) getwd(msg);
138             #endif
139             fprintf(stderr,
140                 catgets(libmksdmsi18n_catd, 1, 162, "fil
141                 name);
142             fprintf(stderr,
143                 catgets(libmksdmsi18n_catd, 1, 163, "fil
144                 lockname);
145             fprintf(stderr,
146                 catgets(libmksdmsi18n_catd, 1, 144, "Cur
147                 msg);

149             printed_warning = 1;
150         }

152         if (++counter > timeout ) {
153             /*
154              * Waited enough - return an error..
155              */
156             return EEXIST;
157         }
158     }
159 }
160 /* NOTREACHED */
161 }
unchanged_portion_omitted
```

\*\*\*\*\*

9525 Wed May 20 11:22:30 2015

new/usr/src/cmd/make/lib/vroot/report.cc

make: fix GCC warnings

\*\*\*\*\*

\_\_\_\_\_unchanged\_portion\_omitted\_\_\_\_\_

```

308 void
309 report_dependency(const char *name)
309 report_dependency(register char *name)
310 {
311     register char    *filename;
312     char             buffer[MAXPATHLEN+1];
313     register char    *p;
314     register char    *p2;
315     char             nse_depinfo_file[MAXPATHLEN];
316
317     if (report_file == NULL) {
318         if ((filename= getenv(SUNPRO_DEPENDENCIES)) == NULL) {
319             report_file = (FILE *)-1;
320             return;
321         }
322         if (strlen(filename) == 0) {
323             report_file = (FILE *)-1;
324             return;
325         }
326         (void)strcpy(buffer, name);
327         name = buffer;
328         p = strchr(filename, ' ');
329         if(p) {
330             *p= 0;
331         } else {
332             report_file = (FILE *)-1;
333             return;
334         }
335         if ((report_file= fopen(filename, "a")) == NULL) {
336             if ((report_file= fopen(filename, "w")) == NULL) {
337                 report_file= (FILE *)-1;
338                 return;
339             }
340         }
341 #if defined(SUN5_0) || defined(HP_UX) || defined(linux)
342         atexit(close_report_file);
343 #else
344         (void)on_exit(close_report_file, (char *)report_file);
345 #endif
346 #endif
347         if ((p2= strchr(p+1, ' ')) != NULL)
348             *p2= 0;
349         target_being_reported_for= (char *)malloc((unsigned)(strlen(p+1)
350 (void)strcpy(target_being_reported_for, p+1);
351 (void)fputs(p+1, report_file);
352 (void)fputs(":", report_file);
353 *p= ' ';
354 if (p2 != NULL)
355     *p2= ' ';
356 }
357 if (report_file == (FILE *)-1)
358     return;
359 (void)fputs(name, report_file);
360 (void)fputs(" ", report_file);
361 }

```

\_\_\_\_\_unchanged\_portion\_omitted\_\_\_\_\_

```

*****
9177 Wed May 20 11:22:30 2015
new/usr/src/cmd/make/lib/vroot/vroot.cc
make: fix GCC warnings
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11 * and limitations under the License.
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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 2004 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 */

27 #include <stdlib.h>
28 #include <string.h>

30 #include <vroot/vroot.h>
31 #include <vroot/args.h>

33 #include <string.h>
34 #include <sys/param.h>
35 #include <sys/file.h>

37 #include <avo/intl.h> /* for NOCATGETS */

39 typedef struct {
40     short          init;
41     pathpt        vector;
42     const char    *env_var;
43     char          *env_var;
44 } vroot_patht;
    _____
    unchanged_portion_omitted_

56 static vroot_datat    vroot_data= {
57     { 0, NULL, NOCATGETS("VIRTUAL_ROOT")},
58     { 0, NULL, NOCATGETS("PATH")},
59     "", NULL, NULL, NULL, 0, 1};

61 void
62 add_dir_to_path(const char *path, register pathpt *pointer, register int positio
63 add_dir_to_path(register char *path, register pathpt *pointer, register int posi
64 {
65     register int          size= 0;
66     register int          length;
67     register char         *name;
68     register pathcellpt   p;
69     pathpt                new_path;

```

```

70     if (*pointer != NULL) {
71         for (p= &((*pointer)[0]); p->path != NULL; p++, size++);
72         if (position < 0)
73             position= size;}
74     else
75         if (position < 0)
76             position= 0;
77     if (position >= size) {
78         new_path= (pathpt)calloc((unsigned)(position+2), sizeof(pathcell
79         if (*pointer != NULL) {
80             memcpy((char *)new_path,(char *)(*pointer), size*sizeof
81             free((char *)(*pointer));};
82         *pointer= new_path;};
83     length= strlen(path);
84     name= (char *)malloc((unsigned)(length+1));
85     (void)strcpy(name, path);
86     if ((*pointer)[position].path != NULL)
87         free((*pointer)[position].path);
88     (*pointer)[position].path= name;
89     (*pointer)[position].length= length;
90 }
    _____
    unchanged_portion_omitted_

110 const char *
110 char *
111 get_vroot_name(void)
112 {
113     return(vroot_data.vroot.env_var);
114 }

116 const char *
116 char *
117 get_path_name(void)
118 {
119     return(vroot_data.path.env_var);
120 }
    _____
    unchanged_portion_omitted_

```