

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

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*****
98813 Wed May 20 11:35:09 2015
new/usr/src/cmd/make/bin/main.cc
make: unifdef for USE_DMS_CCR (undefined)
*****
1 /*
2 * CDDL HEADER START
3 *
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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 */
25 /*
26 *      main.cc
27 *      make program main routine plus some helper routines
28 */
29 /*
30 *      Included files
31 */
32 /*
33 *      * Included files
34 */
35 #if defined(TEAMWARE_MAKE_CMN)
36 #include <avo/intl.h>
37 #include <avo/libcli.h>          /* libcli_init() */
38 #include <avo/cli_license.h>      /* avo_cli_get_license() */
39 #include <avo/find_dir.h>         /* avo_find_run_dir() */
40 #include <avo/version_string.h>
41 #include <avo/util.h>             /* avo_init() */
42 #ifdef USE_DMS_CCR
43 #include <avo/usage_tracking.h>
44 #else
45 #include <avo/cleanup.h>
46 #endif
47 #endif

48 /*
49 #ifdef _CHECK_UPDATE_H
50 #include <libAU.h>
51 #endif
52 #endif

53 #include <bsd/bsd.h>              /* bsd_signal() */

54 #ifdef DISTRIBUTED
55 #include <dm/Avo_AcknowledgeMsg.h>
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new/usr/src/cmd/make/bin/main.cc

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58 #include <rw/xdrstrea.h>
59 #include <dmrc/dmrc.h> /* dmakerc file processing */
60 #endif

62 #include <locale.h>           /* setlocale() */
63 #include <mk/defs.h>
64 #include <mksdmsi18n/mksdmsi18n.h> /* libmksdmsi18n_init() */
65 #include <mksh/macrop.h>        /* getvar() */
66 #include <mksh/misc.h>          /* getmem(), setup_char_semantics() */

68 #if defined(TEAMWARE_MAKE_CMN)
73 #ifdef USE_DMS_CCR
74 #include <pubdmsi18n/pubdmsi18n.h> /* libpubdmsi18n_init() */
75 #endif
69 #endif

71 #include <pwd.h>                /* getpwnam() */
72 #include <setjmp.h>
73 #include <signal.h>
74 #include <stdlib.h>
75 #include <sys/errno.h>           /* ENOENT */
76 #include <sys/stat.h>             /* fstat() */
77 #include <fcntl.h>                /* open() */

79 #include <sys/systeminfo.h>       /* sysinfo() */
81 #include <sys/types.h>             /* stat() */
82 #include <sys/wait.h>              /* wait() */
83 #include <unistd.h>                /* execv(), unlink(), access() */
84 #include <vroot/report.h>          /* report_dependency(), get_report_file() */

86 // From read2.cc
87 extern Name normalize_name(register wchar_t *name_string, register i
89 // From parallel.cc
90 #if defined(TEAMWARE_MAKE_CMN)
91 #define MAXJOBS_ADJUST_RFE4694000

93 #ifdef MAXJOBS_ADJUST_RFE4694000
94 extern void job_adjust_fini();
95 #endif /* MAXJOBS_ADJUST_RFE4694000 */
96 #endif /* TEAMWARE_MAKE_CMN */

99 /*
100 * Defined macros
101 */
102 #define LD_SUPPORT_ENV_VAR NOCATGETS("SGS_SUPPORT")
103 #define LD_SUPPORT_MAKE_LIB NOCATGETS("libmakestate.so.1")

105 /*
106 * typedefs & structs
107 */

109 /*
110 * Static variables
111 */
112 static char argv_zero_string;
113 static Boolean build_failed_ever_seen;
114 static Boolean continue_after_error_ever_seen; /* '-k' */
115 static Boolean dmake_group_specified;           /* '-g' */
116 static Boolean dmake_max_jobs_specified;         /* '-j' */
117 static Boolean dmake_mode_specified;             /* '-m' */
118 static Boolean dmake_add_mode_specified;          /* '-x' */
119 static Boolean dmake_output_mode_specified;        /* '-x' DMAKE_OUTPUT_MODE */
120 static Boolean dmake_compat_mode_specified;        /* '-x' SUN_MAKE_COMPAT_M
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121 static Boolean      dmake_odir_specified;          /* '-o' */
122 static Boolean      dmake_rcfile_specified;        /* '-c' */
123 static Boolean      env_wins;                     /* '-e' */
124 static Boolean      ignore_default_mk;           /* '-r' */
125 static Boolean      list_all_targets;             /* '-T' */
126 static int          mf_argc;
127 static char         **mf_argv;
128 static Dependency_rec not_auto_depen_struct;
129 static Dependency    not_auto_depen = &not_auto_depen_struct;
130 static Boolean      pmake_cap_r_specified;        /* '-R' */
131 static Boolean      pmake_machinesfile_specified; /* '-M' */
132 static Boolean      stop_after_error_ever_seen;   /* '-S' */
133 static Boolean      trace_status;                /* '-p' */

135 #ifdef DMAKE_STATISTICS
136 static Boolean      getname_stat = false;
137#endif

139 #if defined(TEAMWARE_MAKE_CMN)
140     static time_t      start_time;
141     static int         g_argc;
142     static char        **g_argv;
150 #ifdef USE_DMS_CCR
151     static Avo_usage_tracking *usageTracking = NULL;
152 #else
153     static Avo_cleanup    *cleanup = NULL;
154 #endif
155#endif

146 /*
147 * File table of contents
148 */
149     extern "C" void    cleanup_after_exit(void);

151 #ifdef TEAMWARE_MAKE_CMN
152 extern "C" {
153     extern void        dmake_exit_callback(void);
154     extern void        dmake_message_callback(char *);
155 }
156#endif

158 extern Name          normalize_name(register wchar_t *name_string, register i
160 extern int          main(int, char * []);

162 static void          append_makeflags_string(Name, String);
163 static void          doalarm(int);
164 static void          enter_argv_values(int, char **, ASCII_Dyn_Array *);
165 static void          make_targets(int, char **, Boolean);
166 static int           parse_command_option(char);
167 static void          read_command_options(int, char **);
168 static void          read_environment(Boolean);
169 static void          read_files_and_state(int, char **);
170 static Boolean       read_makefile(Name, Boolean, Boolean, Boolean);
171 static void          report_recursion(Name);
172 static void          set_sgs_support(void);
173 static void          setup_for_projectdir(void);
174 static void          setup_makeflags_argv(void);
175 static void          report_dir_enter_leave(Boolean entering);

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

179 #ifdef DISTRIBUTED
180     extern int          dmake_ofd;
181     extern FILE*         dmake_ofp;
182     extern int          r xmPid;

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183     extern XDR            xdrs_out;
184 #endif
185 #ifdef TEAMWARE_MAKE_CMN
186     extern char           verstring[];
187#endif

189 jmp_buf jmpbuffer;
190 extern nl_catd catd;

192 /*
193 *      main(argc, argv)
194 *
195 *      Parameters:
196 *          argc
197 *          argv
198 *
199 *      Static variables used:
200 *          list_all_targets
201 *          trace_status
202 *
203 *      Global variables used:
204 *          debug_level
205 *          keep_state
206 *          makeflags
207 *          remote_command_name
208 *          running_list
209 *          stdout_stderr_same
210 *          auto_dependencies
211 *          temp_file_directory
212 *          trace_reader
213 *          working_on_targets
214 */
215 int
216 main(int argc, char *argv[])
217 {
218     /*
219      * cp is a -> to the value of the MAKEFLAGS env var,
220      * which has to be regular chars.
221      */
222     register char          cp;
223     char                  make_state_dir[MAXPATHLEN];
224     Boolean               parallel_flag = false;
225     char                  *prognameptr;
226     char                  *slash_ptr;
227     mode_t                um;
228     int                   i;
229 #ifdef TEAMWARE_MAKE_CMN
230     struct itimerval      value;
231     char                  def_dmakerc_path[MAXPATHLEN];
232     Name                  dmake_name, dmake_name2;
233     Name                  dmake_value, dmake_value2;
234     Property              prop, prop2;
235     struct stat            statbuf;
236     int                   statval;
237#endif
238
239 #ifndef PARALLEL
240     struct stat            out_stat, err_stat;
241#endif
242     hostid = gethostid();
243 #ifdef TEAMWARE_MAKE_CMN
244     avo_get_user(NULL, NULL); // Initialize user name
245#endif
246     bsd_signals();
247
248     (void) setlocale(LC_ALL, "");

```

You know what this is  
You know what this is  
make -T seen  
make -p seen  
Should we trace make actions?  
Set if .KEEP\_STATE seen  
The Name "MAKEFLAGS", used to get macro  
Name of remote invocation cmd ("on")  
List of parallel running processes  
true if stdout and stderr are the same  
The Name "SUNPRO\_DEPENDENCIES"  
Set to the dir where we create tmp file  
Set to reflect tracing status  
Set when building user targets

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251 #ifdef DMAKE_STATISTICS
252     if (getenv(NOCATGETS("DMAKE_STATISTICS"))) {
253         getname_stat = true;
254     }
255 #endif

258     /*
259      * avo_init() sets the umask to 0. Save it here and restore
260      * it after the avo_init() call.
261      */
262 #if defined(TEAMWARE_MAKE_CMN) || defined(MAKETOOL)
263     um = umask(0);
264     avo_init(argv[0]);
265     umask(um);

278 #ifdef USE_DMS_CCR
279     usageTracking = new Avo_usage_tracking(NOCATGETS("dmake"), argc, argv);
280 #else
281     cleanup = new Avo_cleanup(NOCATGETS("dmake"), argc, argv);
282 #endif
283 #endif

270 #if defined(TEAMWARE_MAKE_CMN)
271     catd = catopen(AVO_DOMAIN_DMAKE, NL_CAT_LOCALE);
272     libcli_init();

274 #ifdef _CHECK_UPDATE_H
275     /* This is for dmake only (not for Solaris make).
276      * Check (in background) if there is an update (dmake patch)
277      * and inform user
278      */
279     {
280         Avo_err        *err;
281         char          *dir;
282         err = avo_find_run_dir(&dir);
283         if (AVO_OK == err) {
284             AU_check_update_service(NOCATGETS("Dmake"), dir);
285         }
286     }
287 #endif /* _CHECK_UPDATE_H */
288 #endif

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

293 #if defined(TEAMWARE_MAKE_CMN) || defined(MAKETOOL)
294 /*
295  * I put libmksdmsi18n_init() under #ifdef because it requires avo_i18n_init()
296  * from avo_util library.
297 */
298     libmksdmsi18n_init();
314 #ifdef USE_DMS_CCR
315     libpubdmsi18n_init();
316 #endif
299 #endif

302 #ifndef TEAMWARE_MAKE_CMN
303     textdomain(NOCATGETS("SUNW_SPRO_MAKE"));
304 #endif /* TEAMWARE_MAKE_CMN */

306 #ifdef TEAMWARE_MAKE_CMN
307     g_argc = argc;

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308     g_argv = (char **) malloc((g_argc + 1) * sizeof(char *));
309     for (i = 0; i < argc; i++) {
310         g_argv[i] = argv[i];
311     }
312     g_argv[i] = NULL;
313 #endif /* TEAMWARE_MAKE_CMN */

315     /*
316      * Set argv_zero_string to some form of argv[0] for
317      * recursive MAKE builds.
318      */
320     if (*argv[0] == (int) slash_char) {
321         /* argv[0] starts with a slash */
322         argv_zero_string = strdup(argv[0]);
323     } else if (strchr(argv[0], (int) slash_char) == NULL) {
324         /* argv[0] contains no slashes */
325         argv_zero_string = strdup(argv[0]);
326     } else {
327         /*
328          * argv[0] contains at least one slash,
329          * but doesn't start with a slash
330          */
331         char    *tmp_current_path;
332         char    *tmp_string;

334         tmp_current_path = get_current_path();
335         tmp_string = getmem(strlen(tmp_current_path) + 1 +
336                             strlen(argv[0]) + 1);
337         (void) sprintf(tmp_string,
338                         "%s/%s",
339                         tmp_current_path,
340                         argv[0]);
341         argv_zero_string = strdup(tmp_string);
342         retmem_mb(tmp_string);
343     }

345     /*
346      * The following flags are reset if we don't have the
347      * (.nse_depinfo or .make.state) files locked and only set
348      * AFTER the file has been locked. This ensures that if the user
349      * interrupts the program while file_lock() is waiting to lock
350      * the file, the interrupt handler doesn't remove a lock
351      * that doesn't belong to us.
352      */
353     make_state_lockfile = NULL;
354     make_state_locked = false;

357     /*
358      * look for last slash char in the path to look at the binary
359      * name. This is to resolve the hard link and invoke make
360      * in svr4 mode.
361      */
363     /* Sun OS make standard */
364     svr4 = false;
365     posix = false;
366     if (!strcmp(argv_zero_string, NOCATGETS("/usr/xpg4/bin/make"))) {
367         svr4 = false;
368         posix = true;
369     } else {
370         programeptr = strrchr(argv[0], '/');
371         if (programeptr) {
372             programeptr++;
373         } else {

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374         programeptr = argv[0];
375     }
376     if(!strcmp(programeptr, NOCATGETS("svr4.make"))) {
377         svr4 = true;
378         posix = false;
379     }
380 }
381 if (getenv(USE_SVR4_MAKE) || getenv(NOCATGETS("USE_SVID"))){
382     svr4 = true;
383     posix = false;
384 }
385
386 /* 
387  * Find the dmake_compat_mode: posix, sun, svr4, or gnu_style, .
388  */
389 char * dmake_compat_mode_var = getenv(NOCATGETS("SUN_MAKE_COMPAT_MODE"));
390 if (dmake_compat_mode_var != NULL) {
391     if (0 == strcasecmp(dmake_compat_mode_var, NOCATGETS("GNU"))){
392         gnu_style = true;
393     }
394     //svr4 = false;
395     //posix = false;
396 }
397
398 /* 
399  * Temporary directory set up.
400  */
401 char * tmpdir_var = getenv(NOCATGETS("TMPDIR"));
402 if (tmpdir_var != NULL && *tmpdir_var == '/' && strlen(tmpdir_var) < MAX
403     strcpy(mbs_buffer, tmpdir_var);
404     for (tmpdir_var = mbs_buffer+strlen(mbs_buffer);
405          *tmpdir_var == '/' && tmpdir_var > mbs_buffer;
406          *tmpdir_var = '\0');
407     if (strlen(mbs_buffer) + 32 < MAXPATHLEN) { /* 32 = strlen("/dma
408         sprintf(mbs_buffer2, NOCATGETS("%s/dmake.tst.%d.XXXXXX"))
409         mbs_buffer, getpid());
410         int fd = mkstemp(mbs_buffer2);
411         if (fd >= 0) {
412             close(fd);
413             unlink(mbs_buffer2);
414             tmpdir = strdup(mbs_buffer);
415         }
416     }
417 }
418
419 #ifndef PARALLEL
420 /* find out if stdout and stderr point to the same place */
421 if (fstat(1, &out_stat) < 0) {
422     fatal(catgets(catd, 1, 165, "fstat of standard out failed: %s"),
423 }
424 if (fstat(2, &err_stat) < 0) {
425     fatal(catgets(catd, 1, 166, "fstat of standard error failed: %s"
426 }
427 if ((out_stat.st_dev == err_stat.st_dev) &&
428     (out_stat.st_ino == err_stat.st_ino)) {
429     stdout_stderr_same = true;
430 } else {
431     stdout_stderr_same = false;
432 }
433 #else
434     stdout_stderr_same = false;
435 #endif
436 /* Make the vroot package scan the path using shell semantics */
437 set_path_style(0);
438
439 setup_char_semantics();

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441     setup_for_projectdir();
442     /*
443      * If running with .KEEP_STATE, curdir will be set with
444      * the connected directory.
445      */
446     (void) atexit(cleanup_after_exit);
447
448     load_cached_names();
449
450     /*
451      * Set command line flags
452      */
453     /*
454     setup_makeflags_argv();
455     read_command_options(mf_argc, mf_argv);
456     read_command_options(argc, argv);
457     if (debug_level > 0) {
458         cp = getenv(makeflags->string_mb);
459         (void) printf(catgets(catd, 1, 167, "MAKEFLAGS value: %s\n"), cp
460     }
461
462     setup_interrupt(handle_interrupt);
463
464     read_files_and_state(argc, argv);
465
466 #ifdef TEAMWARE_MAKE_CMN
467     /*
468      * Find the dmake_output_mode: TXT1, TXT2 or HTML1.
469      */
470     MBSTOWCS(wcs_buffer, NOCATGETS("DMAKE_OUTPUT_MODE"));
471     dmake_name2 = GETNAME(wcs_buffer, FIND_LENGTH);
472     prop2 = get_prop(dmake_name2->prop, macro_prop);
473     if (prop2 == NULL) {
474         /* DMAKE_OUTPUT_MODE not defined, default to TXT1 mode */
475         output_mode = txt1_mode;
476     } else {
477         dmake_value2 = prop2->body.macro.value;
478         if ((dmake_value2 == NULL) ||
479             (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("TXT1")))) {
480             output_mode = txt1_mode;
481         } else if (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("TXT2"))){
482             output_mode = txt2_mode;
483         } else if (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("HTML1"))){
484             output_mode = html1_mode;
485         } else {
486             warning(catgets(catd, 1, 352, "Unsupported value '%s' fo
487                             dmake_value2->string_mb));
488         }
489     }
490     /*
491      * Find the dmake_mode: distributed, parallel, or serial.
492      */
493     if ((!ipmake_cap_r_specified) &&
494         (!ipmake_machinesfile_specified)) {
495         MBSTOWCS(wcs_buffer, NOCATGETS("DMAKE_MODE"));
496         dmake_name2 = GETNAME(wcs_buffer, FIND_LENGTH);
497         prop2 = get_prop(dmake_name2->prop, macro_prop);
498         if (prop2 == NULL) {
499             /* DMAKE_MODE not defined, default to distributed mode */
500             dmake_mode_type = distributed_mode;
501             no_parallel = false;
502         } else {
503             dmake_value2 = prop2->body.macro.value;
504             if ((dmake_value2 == NULL) ||
505                 (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("distributed")))

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506         dmake_mode_type = distributed_mode;
507         no_parallel = false;
508     } else if (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("parallel"))
509     dmake_mode_type = parallel_mode;
510     no_parallel = false;
511 #ifdef SGE_SUPPORT
512     grid = false;
513 } else if (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("grid")))
514     dmake_mode_type = parallel_mode;
515     no_parallel = false;
516     grid = true;
517 #endif
518 } else if (IS_EQUAL(dmake_value2->string_mb, NOCATGETS("serial"))
519     dmake_mode_type = serial_mode;
520     no_parallel = true;
521 } else {
522     fatal(catgets(catd, 1, 307, "Unknown dmake mode argument
523     })
524 }

526 if ((!list_all_targets) &&
527     (report_dependencies_level == 0)) {
528     /*
529     * Check to see if either DMAKE_RCFILE or DMAKE_MODE is defined.
530     * They could be defined in the env, in the makefile, or on the
531     * command line.
532     * If neither is defined, and $(HOME)/.dmakerc does not exists,
533     * then print a message, and default to parallel mode.
534     */
535 #ifdef DISTRIBUTED
536     MBSTOWCS(wcs_buffer, NOCATGETS("DMAKE_RCFILE"));
537     dmake_name = GETNAME(wcs_buffer, FIND_LENGTH);
538     MBSTOWCS(wcs_buffer, NOCATGETS("DMAKE_MODE"));
539     dmake_name2 = GETNAME(wcs_buffer, FIND_LENGTH);
540     if (((prop = get_prop(dmake_name->prop, macro_prop)) == NULL) ||
541         (dmake_value = prop->body.macro.value) == NULL)) &&
542         ((prop2 = get_prop(dmake_name2->prop, macro_prop)) == NULL) ||
543         ((dmake_value2 = prop2->body.macro.value) == NULL))) {
544         Boolean empty_dmakerc = true;
545         char *homedir = getenv(NOCATGETS("HOME"));
546         if ((homedir != NULL) && (strlen(homedir) < (sizeof(def_
547             .sprintf(def_dmakerc_path, NOCATGETS("%s/.dmakerc
548             if (((statval = stat(def_dmakerc_path, &statbuf
549                 ((statval == 0) && (statbuf.st_size == 0
550             ) else {
551                 Avo_dmakerc    *rcfile = new Avo_dmaker
552                 Avo_err        *err = rcfie->read(def_
553                     if (*err) {
554                         fatal(err->str);
555                     }
556                     empty_dmakerc = rcfie->was_empty();
557                     delete rcfie;
558                 }
559             }
560             if (empty_dmakerc) {
561                 if (getenv(NOCATGETS("DMAKE_DEF_PRINTED")) == NU
562                     putenv(NOCATGETS("DMAKE_DEF_PRINTED=TRUE
563                     (void) fprintf(stdout, catgets(catd, 1,
564                     (void) fprintf(stdout, catgets(catd, 1,
565                     dmake_mode_type = parallel_mode;
566                     no_parallel = false;
567                 }
568             }
569         }
570 #else
571         if(dmake_mode_type == distributed_mode) {

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572             (void) fprintf(stdout, NOCATGETS("dmake: Distributed mod
573             (void) fprintf(stdout, NOCATGETS("      Defaulting to p
574             dmake_mode_type = parallel_mode;
575             no_parallel = false;
576         }
577     #endif /* DISTRIBUTED */
578   }
579 }
580#endif

582 #ifdef TEAMWARE_MAKE_CMN
583     parallel_flag = true;
584     /* XXX - This is a major hack for DMake/Licensing. */
585     if (getenv(NOCATGETS("DMAKE_CHILD")) == NULL) {
586         if (!avo_cli_search_license(argv[0], dmake_exit_callback, TRUE,
587             /*
588             * If the user can not get a TeamWare license,
589             * default to serial mode.
590             */
591             dmake_mode_type = serial_mode;
592             no_parallel = true;
593         } else {
594             putenv(NOCATGETS("DMAKE_CHILD=TRUE"));
595         }
596         start_time = time(NULL);
597         /*
598         * XXX - Hack to disable SIGALRM's from licensing library's
599         * setitimer().
600         */
601         value.it_interval.tv_sec = 0;
602         value.it_interval.tv_usec = 0;
603         value.it_value.tv_sec = 0;
604         value.it_value.tv_usec = 0;
605         (void) setitimer(ITIMER_REAL, &value, NULL);
606     }
607
608 // If dmake is running with -t option, set dmake_mode_type to serial.
609 // This is done because doname() calls touch_command() that runs serially.
610 // If we do not do that, maketool will have problems.
611 //
612 //     if(touch) {
613         dmake_mode_type = serial_mode;
614         no_parallel = true;
615     }
616 #else
617     parallel_flag = false;
618 #endif

619 #if defined (TEAMWARE_MAKE_CMN) && defined (REDIRECT_ERR)
620     /*
621     * Check whether stdout and stderr are physically same.
622     * This is in order to decide whether we need to redirect
623     * stderr separately from stdout.
624     * This check is performed only if __DMAKE_SEPARATE_STDERR
625     * is not set. This variable may be used in order to preserve
626     * the 'old' behaviour.
627     */
628     out_err_same = true;
629     char * dmake_sep_var = getenv(NOCATGETS("__DMAKE_SEPARATE_STDERR"));
630     if (dmake_sep_var == NULL || (0 != strcasecmp(dmake_sep_var, NOCATGETS("_
631         struct stat stdout_stat;
632         struct stat stderr_stat;
633         if( (fstat(1, &stdout_stat) == 0)
634             && (fstat(2, &stderr_stat) == 0) )
635             {

```

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```
638         if( (stdout_stat.st_dev != stderr_stat.st_dev)
639             || (stdout_stat.st_ino != stderr_stat.st_ino) )
640             {
641                 out_err_same = false;
642             }
643     }
644 #endif
645
646 /*ifdef DISTRIBUTED
647 */
648     * At this point, DMake should startup an rxm with any and all
649     * DMake command line options. Rxm will, among other things,
650     * read the rc file.
651 */
652
653     if ((!list_all_targets) &&
654         (report_dependencies_level == 0) &&
655         (dmake_mode_type == distributed_mode)) {
656         startup_rxm();
657     }
658 #endif
659
660 /*
661 * Enable interrupt handler for alarms
662 */
663 (void) bsd_signal(SIGALRM, (SIG_PF)doalarm);
664
665 /*
666 * Check if make should report
667 */
668 if (getenv(sunpro_dependencies->string_mb) != NULL) {
669     FILE *report_file;
670
671     report_dependency("");
672     report_file = get_report_file();
673     if ((report_file != NULL) && (report_file != (FILE*)-1)) {
674         (void) fprintf(report_file, "\n");
675     }
676 }
677
678 /*
679 * Make sure SUNPRO_DEPENDENCIES is exported (or not) properly.
680 */
681 if (keep_state) {
682     maybe_append_prop(sunpro_dependencies, macro_prop)->
683     body.macro.exported = true;
684 } else {
685     maybe_append_prop(sunpro_dependencies, macro_prop)->
686     body.macro.exported = false;
687 }
688
689 working_on_targets = true;
690 if (trace_status) {
691     dump_make_state();
692     fclose(stdout);
693     fclose(stderr);
694     exit_status = 0;
695     exit(0);
696 }
697 if (list_all_targets) {
698     dump_target_list();
699     fclose(stdout);
700     fclose(stderr);
701     exit_status = 0;
702     exit(0);
703 }
```

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

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```
704     trace_reader = false;
705
706     /*
707      * Set temp_file_directory to the directory the .make.state
708      * file is written to.
709      */
710     if ((slash_ptr = strrchr(make_state->string_mb, (int) slash_char)) == NULL)
711         temp_file_directory = strdup(get_current_path());
712     } else {
713         *slash_ptr = (int) nul_char;
714         (void) strcpy(make_state_dir, make_state->string_mb);
715         *slash_ptr = (int) slash_char;
716         /* when there is only one slash and it's the first
717          ** character, make_state_dir should point to '/'.
718          */
719         if (make_state_dir[0] == '\0') {
720             make_state_dir[0] = '/';
721             make_state_dir[1] = '\0';
722         }
723         if (make_state_dir[0] == (int) slash_char) {
724             temp_file_directory = strdup(make_state_dir);
725         } else {
726             char tmp_current_path2[MAXPATHLEN];
727             (void) sprintf(tmp_current_path2,
728                           "%s/%s",
729                           get_current_path(),
730                           make_state_dir);
731             temp_file_directory = strdup(tmp_current_path2);
732         }
733     }
734
735 #ifdef DISTRIBUTED
736     building_serial = false;
737 #endif
738
739
740     report_dir_enter_leave(true);
741
742     make_targets(argc, argv, parallel_flag);
743
744     report_dir_enter_leave(false);
745
746     if (build_failed_ever_seen) {
747         if (posix) {
748             exit_status = 1;
749         }
750         exit(1);
751     }
752     exit_status = 0;
753     exit(0);
754     /* NOTREACHED */
755 }
756
757 /*
758 * cleanup_after_exit()
759 */
760
761 /*
762 * Called from exit(), performs cleanup actions.
763 */
764
765 /*
766 * Parameters:
767 *   status      The argument exit() was called with
768 *   arg        Address of an argument vector to
769 *             cleanup_after_exit()
770 */
771
772 /*
773 * Global variables used:
774 *   command_changed Set if we think .make.state should be rewritten
775 *   current_line   Is set we set commands_changed
776 *
```

```

770 *          do_not_exec_rule
771 *          True if -n flag on
772 *          done      The Name ".DONE", rule we run
773 *          keep_state Set if .KEEP_STATE seen
774 *          parallel  True if building in parallel
775 *          quest    If -q is on we do not run .DONE
776 *          report_dependencies
777 *          True if -P flag on
778 *          running_list List of parallel running processes
779 *          temp_file_name The temp file is removed, if any
780 *          catd      the message catalog file
799 *          usage_tracking Should have been constructed in main()
800 *                      should destroyed just before exiting
81 */
782 extern "C" void
783 cleanup_after_exit(void)
784 {
785     Running     rp;
786
787 extern long  getname_bytes_count;
788 extern long  getname_names_count;
789 extern long  getname_struct_count;
790 extern long  freename_bytes_count;
791 extern long  freename_names_count;
792 extern long  freename_struct_count;
793 extern long  other_alloc;
795 extern long  env_alloc_num;
796 extern long  env_alloc_bytes;
799 #ifdef DMAKE_STATISTICS
800 if(getname_stat) {
801     printf(NOCATGETS("">>> Getname statistics:\n"));
802     printf(NOCATGETS("    Allocated:\n"));
803     printf(NOCATGETS("        Names: %ld\n"), getname_names_count);
804     printf(NOCATGETS("        Strings: %ld Kb (%ld bytes)\n"), getname_bytes_c
805     printf(NOCATGETS("        Structs: %ld Kb (%ld bytes)\n"), getname_struct_
806     printf(NOCATGETS("    Total bytes: %ld Kb (%ld bytes)\n"), getname_struct_
807
808     printf(NOCATGETS("\n    Unallocated: %ld\n"), freename_names_count);
809     printf(NOCATGETS("        Names: %ld\n"), freename_names_count);
810     printf(NOCATGETS("        Strings: %ld Kb (%ld bytes)\n"), freename_bytes_
811     printf(NOCATGETS("        Structs: %ld Kb (%ld bytes)\n"), freename_struct_
812     printf(NOCATGETS("    Total bytes: %ld Kb (%ld bytes)\n"), freename_struct_
813
814     printf(NOCATGETS("\n    Total used: %ld Kb (%ld bytes)\n"), (getname_struct_
815
816     printf(NOCATGETS("\n">>> Other:\n"));
817     printf(
818         NOCATGETS("            Env (%ld): %ld Kb (%ld bytes)\n"),
819         env_alloc_num,
820         env_alloc_bytes/1000,
821         env_alloc_bytes
822     );
823 }
824 */
825 #endif
826
827 /*
828 #ifdef DISTRIBUTED
829     if (get_parent() == TRUE) {
830 #endif
831 */
833     parallel = false;

```

```

834     /* If we used the SVR4_MAKE, don't build .DONE or .FAILED */
835     if (!getenv(USE_SVR4_MAKE)) {
836         /* Build the target .DONE or .FAILED if we caught an error */
837         if (!quest && !list_all_targets) {
838             Name                failed_name;
839
840             MBSTOWCS(wcs_buffer, NOCATGETS(".FAILED"));
841             failed_name = GETNAME(wcs_buffer, FIND_LENGTH);
842             if ((exit_status != 0) && (failed_name->prop != NULL)) {
843 #ifdef TEAMWARE_MAKE_CMN
844                 /*
845                  * [tolik] switch DMake to serial mode
846                  */
847                 dmake_mode_type = serial_mode;
848                 no_parallel = true;
849            #endif
850             } else {
851                 (void) donne(failed_name, false, true);
852                 if (!trace_status) {
853 #ifdef TEAMWARE_MAKE_CMN
854                 /*
855                  * Switch DMake to serial mode
856                  */
857                 dmake_mode_type = serial_mode;
858                 no_parallel = true;
859            #endif
860                 (void) donne(done, false, true);
861             }
862         }
863     }
864 }
865 */
866 /* Remove the temp file utilities report dependencies thru if it
867  * is still around
868 */
869 if (temp_file_name != NULL) {
870     (void) unlink(temp_file_name->string_mb);
871 }
872 /*
873  * Do not save the current command in .make.state if make
874  * was interrupted.
875 */
876 if (current_line != NULL) {
877     command_changed = true;
878     current_line->body.line.command_used = NULL;
879 }
880 /*
881  * For each parallel build process running, remove the temp files
882  * and zap the command line so it won't be put in .make.state
883 */
884 for (rp = running_list; rp != NULL; rp = rp->next) {
885     if (rp->temp_file != NULL) {
886         (void) unlink(rp->temp_file->string_mb);
887     }
888     if (rp->stdout_file != NULL) {
889         (void) unlink(rp->stdout_file);
890         retmem_mb(rp->stdout_file);
891         rp->stdout_file = NULL;
892     }
893     if (rp->stderr_file != NULL) {
894         (void) unlink(rp->stderr_file);
895         retmem_mb(rp->stderr_file);
896         rp->stderr_file = NULL;
897     }
898 }
899 */

```

```
900         line = get_prop(rp->target->prop, line_prop);
901         if (line != NULL) {
902             line->body.line.command_used = NULL;
903         }
904     */
905 }
906 /* Remove the statefile lock file if the file has been locked */
907 if ((make_state_lockfile != NULL) && (make_state_locked)) {
908     (void) unlink(make_state_lockfile);
909     make_state_lockfile = NULL;
910     make_state_locked = false;
911 }
912 /* Write .make.state */
913 write_state_file(l, (Boolean) 1);

915 #ifdef TEAMWARE_MAKE_CMN
916     // Deleting the usage tracking object sends the usage mail
937 #ifdef USE_DMS_CCR
938     //usageTracking->setExitStatus(exit_status, NULL);
939     //delete usageTracking;
940 #else
917     cleanup->set_exit_status(exit_status);
918     delete cleanup;
919 #endif
944 #endif

921 /*
922 #ifdef DISTRIBUTED
923 */
924 #endif
925 */

927 #if defined (TEAMWARE_MAKE_CMN) && defined (MAXJOBS_ADJUST_RFE4694000)
928     job_adjust_fini();
929 #endif

931 #ifdef TEAMWARE_MAKE_CMN
932     catclose(catd);
933 #endif
934 #ifdef DISTRIBUTED
935     if (rxmPid > 0) {
936         // Tell rxm to exit by sending it an Avo_AcknowledgeMsg
937         Avo_AcknowledgeMsg acknowledgeMsg;
938         RWCollectable *msg = (RWCollectable *)&acknowledgeMsg;

940         int xdrResult = xdr(&xdrs_out, msg);

942         if (xdrResult) {
943             fflush(dmake_ofp);
944         } else {
945             /*
946                 fatal(catgets(catd, 1, 266, "couldn't tell rxm to exit")
947             */
948             kill(rxmPid, SIGTERM);
949         }

951         waitpid(rxmPid, NULL, 0);
952         rxmPid = 0;
953     }
954 #endif
955 }
```

unchanged\_portion\_omitted\_