

```

*****
15588 Fri Mar 27 10:14:59 2015
new/usr/src/cmd/hal/hald/hald.c
3792 hald.c:371: error: 'g_type_init' is deprecated
Reviewed by: Igor Kozhukhov <ikozhukhov@gmail.com>
Reviewed by: Jon Tibble <meths@btinternet.com>
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
*****
_____unchanged_portion_omitted_____

353 /-----
355 /** Entry point for HAL daemon
356 *
357 * @param argc      Number of arguments
358 * @param argv      Array of arguments
359 * @return          Exit code
360 */
361 int
362 main (int argc, char *argv[])
363 {
364     GMainLoop *loop;
365     guint sigterm_iochn_listener_source_id;
366     char *path;
367     char newpath[512];

369     openlog ("hald", LOG_PID, LOG_DAEMON);
370 #if !GLIB_CHECK_VERSION(2,35,0)
371     g_type_init ();
372 #endif

373     if (getenv ("HALD_VERBOSE"))
374         hald_is_verbose = TRUE;
375     else
376         hald_is_verbose = FALSE;

378     /* our helpers are installed into libexec, so adjust out $PATH
379      * to include this at the end (since we want to override in
380      * run-hald.sh and friends)
381      */
382     path = getenv ("PATH");
383     if (path != NULL) {
384         g_strlcpy (newpath, path, sizeof (newpath));
385         g_strlcat (newpath, ":", sizeof (newpath));
386     } else {
387         /* No PATH was set */
388         newpath[0] = '\0';
389     }

391     g_strlcat (newpath, PACKAGE_LIBEXEC_DIR, sizeof (newpath));
392     g_strlcat (newpath, ":", sizeof (newpath));
393     g_strlcat (newpath, PACKAGE_SCRIPT_DIR, sizeof (newpath));

395     setenv ("PATH", newpath, TRUE);

397     while (1) {
398         int c;
399         int option_index = 0;
400         const char *opt;
401         static struct option long_options[] = {
402             {"daemon", 1, NULL, 0},
403             {"verbose", 1, NULL, 0},
404             {"use-syslog", 0, NULL, 0},
405             {"help", 0, NULL, 0},
406             {"version", 0, NULL, 0},

```

```

407             {NULL, 0, NULL, 0}
408         };
409
410         c = getopt_long (argc, argv, "",
411                         long_options, &option_index);
412         if (c == -1)
413             break;

415         switch (c) {
416         case 0:
417             opt = long_options[option_index].name;

419             if (strcmp (opt, "help") == 0) {
420                 usage ();
421                 return 0;
422             } else if (strcmp (opt, "version") == 0) {
423                 fprintf (stderr, "HAL package version: " PACKAGE
424                         return 0;
425             } else if (strcmp (opt, "daemon") == 0) {
426                 if (strcmp ("yes", optarg) == 0) {
427                     opt_become_daemon = TRUE;
428                 } else if (strcmp ("no", optarg) == 0) {
429                     opt_become_daemon = FALSE;
430                 } else {
431                     usage ();
432                     return 1;
433                 }
434             } else if (strcmp (opt, "verbose") == 0) {
435                 if (strcmp ("yes", optarg) == 0) {
436                     hald_is_verbose = TRUE;
437                 } else if (strcmp ("no", optarg) == 0) {
438                     hald_is_verbose = FALSE;
439                 } else {
440                     usage ();
441                     return 1;
442                 }
443             } else if (strcmp (opt, "use-syslog") == 0) {
444                 hald_use_syslog = TRUE;
445             }

447             break;

449         default:
450             usage ();
451             return 1;
452             break;
453         }
454     }

456     if (hald_is_verbose)
457         logger_enable ();
458     else
459         logger_disable ();

461     if (hald_use_syslog)
462         logger_enable_syslog ();
463     else
464         logger_disable_syslog ();

466     /* will fork into two; only the child will return here if we are success
467      /*master_slave_setup ();
468      sleep (100000000);*/

470     loop = g_main_loop_new (NULL, FALSE);

472     HAL_INFO ((PACKAGE_STRING));

```

```

474     if (opt_become_daemon) {
475         int child_pid;
476         int dev_null_fd;
477         int pf;
478         ssize_t written;
479         char pid[9];
480
481         HAL_INFO (("Will daemonize"));
482         HAL_INFO (("Becoming a daemon"));
483
484         if (pipe (startup_daemonize_pipe) != 0) {
485             fprintf (stderr, "Could not setup pipe: %s\n", strerror(
486                 exit (1);
487         }
488
489         if (chdir ("/") < 0) {
490             fprintf (stderr, "Could not chdir to /: %s\n", strerror(
491                 exit (1);
492             }
493
494         child_pid = fork ();
495         switch (child_pid) {
496             case -1:
497                 fprintf (stderr, "Cannot fork(): %s\n", strerror(errno))
498                 break;
499
500             case 0:
501                 /* child */
502
503                 dev_null_fd = open ("/dev/null", O_RDWR);
504                 /* ignore if we can't open /dev/null */
505                 if (dev_null_fd >= 0) {
506                     /* attach /dev/null to stdout, stdin, stderr */
507                     dup2 (dev_null_fd, 0);
508                     dup2 (dev_null_fd, 1);
509                     dup2 (dev_null_fd, 2);
510                     close (dev_null_fd);
511                 }
512
513                 umask (022);
514                 break;
515
516             default:
517                 /* parent, block until child writes */
518                 exit (parent_wait_for_child (startup_daemonize_pipe[0],
519                     break;
520             }
521
522         /* Create session */
523         setsid ();
524
525         /* remove old pid file */
526         unlink (HALD_PID_FILE);
527
528         /* Make a new one */
529         if ((pf= open (HALD_PID_FILE, O_WRONLY|O_CREAT|O_TRUNC|O_EXCL, 0
530             snprintf (pid, sizeof(pid), "%lu\n", (long unsigned) get
531             written = write (pf, pid, strlen(pid));
532             close (pf);
533             atexit (delete_pid);
534         }
535     } else {
536         HAL_INFO (("Will not daemonize"));
537     }
538 }

```

```

541     /* we need to do stuff when we are expected to terminate, thus
542     * this involves looking for SIGTERM; UNIX signal handlers are
543     * evil though, so set up a pipe to transmit the signal.
544     */
545
546     /* create pipe */
547     if (pipe (sigterm_unix_signal_pipe_fds) != 0) {
548         DIE (("Could not setup pipe, errno=%d", errno));
549     }
550
551     /* setup glib handler - 0 is for reading, 1 is for writing */
552     sigterm_iochn = g_io_channel_unix_new (sigterm_unix_signal_pipe_fds[0]);
553     if (sigterm_iochn == NULL)
554         DIE (("Could not create GIOChannel"));
555
556     /* get callback when there is data to read */
557     sigterm_iochn_listener_source_id = g_io_add_watch (
558         sigterm_iochn, G_IO_IN, sigterm_iochn_data, NULL);
559
560     /* Finally, setup unix signal handler for TERM */
561     signal (SIGTERM, handle_sigterm);
562
563     /* set up the local dbus server */
564     if (!hald_dbus_local_server_init ())
565         return 1;
566     /* Start the runner helper daemon */
567     if (!hald_runner_start_runner ()) {
568         return 1;
569     }
570
571     drop_privileges(0);
572
573     /* initialize operating system specific parts */
574     osspec_init ();
575
576     hald_is_initialising = TRUE;
577
578     /* detect devices */
579     osspec_probe ();
580
581     /* run the main loop and serve clients */
582     g_main_loop_run (loop);
583
584     return 0;
585 }

```

unchanged\_portion\_omitted