

Robotics Systems Commons - Bug #1499

Configuration from /etc is not read when prefix configured to /usr

05/17/2013 12:47 PM - J. Wienke

Status:	Resolved	Start date:	05/17/2013
Priority:	Normal	Due date:	
Assignee:		% Done:	100%
Category:	Configuration	Estimated time:	0.00 hour
Target version:	rsb-0.9		
Description			
The current configuration mechanism seems to ignore configuration files in /etc in case we have configured /usr as the prefix.			

Associated revisions

Revision acc95ee0 - 05/19/2013 10:04 AM - J. Moringen

Compute prefix config directory correctly in src/rsc/config/Environment.{h,cpp}

fixes #1499

- src/rsc/config.h.in: added RSC_INSTALL_PREFIX
- src/rsc/config/Environment.{h,cpp} (prefixConfigDirectory): use RSC_INSTALL_PREFIX as default prefix; for "/usr" prefix use "/etc" as prefix config directory instead of "/usr/etc"
- examples/Directories.cpp: new example; prints special directories provided by RSC

History

#1 - 05/17/2013 12:51 PM - J. Moringen

When /usr (not /) is the configured prefix, configuration files *should* be expected in /usr/etc (not /etc).

Btw., I may be missing something, but installing with /usr as prefix seems odd to me.

#2 - 05/17/2013 01:02 PM - J. Wienke

No, basically all programs installed to /usr expect their configuration files in /etc. This is the default for all linux distributions I know. /usr/etc/ doesn't even exist on our debian system. As an example, the debian package installs /etc/gimp which is used by /usr/bin/gimp.

#3 - 05/17/2013 01:06 PM - J. Moringen

Johannes Wienke wrote:

No, basically all programs installed to /usr expect their configuration files in /etc. This is the default for all linux distributions I know. /usr/etc/ doesn't even exist on our debian system. As an example, the debian package installs /etc/gimp which is used by /usr/bin/gimp.

True, but I thought the *prefix* still was / in that case, despite some stuff being installed under /usr.

#4 - 05/17/2013 01:10 PM - J. Moringen

This might help sorting out our confusion:

http://www.gnu.org/prep/standards/html_node/Directory-Variables.html

#5 - 05/17/2013 01:16 PM - J. Moringen

The interesting part is:

`'sysconfdir'`

The directory for installing read-only data files that pertain to a single machine—that is to say, files for configuring a host. Mailer and network configuration files, `/etc/passwd`, and so forth belong here. All the files in this directory should be ordinary ASCII text files. This directory should normally be `/usr/local/etc`, but write it as `$(prefix)/etc`. (If you are using Autoconf, write it as `'@sysconfdir@'`.)

Do not install executables here in this directory (they probably belong in `$(libexecdir)` or `$(bindir)`). Also do not install files that are modified in the normal course of their use (programs whose purpose is to change the configuration of the system excluded). Those probably belong in `$(localstatedir)`.

But I think this can only work because:

When building the complete GNU system, the prefix will be empty and `/usr` will be a symbolic link to `/`.

#6 - 05/17/2013 01:19 PM - J. Moringen

I'm starting to lean towards the conclusion that we need two different behaviors:

- If prefix is set such that binaries are installed in `/usr`, use `/etc` as `sysconfdir` (I'm still not sure whether prefix should be `/` or `/usr` in this case)
- For any other prefix, use `PREFIX/etc` as `sysconfdir`

#7 - 05/17/2013 01:24 PM - J. Wienke

Jan Moringen wrote:

I'm starting to lean towards the conclusion that we need two different behaviors:

- *If prefix is set such that binaries are installed in `/usr`, use `/etc` as `sysconfdir` (I'm still not sure whether prefix should be `/` or `/usr` in this case)*
- *For any other prefix, use `PREFIX/etc` as `sysconfdir`*

This is exactly what I would have thought of as the solution.

#8 - 05/17/2013 01:31 PM - J. Moringen

This solution can probably be implemented in `rsc::config::prefixConfigDirectory`.

However, the question remains whether the specially treated prefix is `/` or `/usr`.

#9 - 05/19/2013 10:24 AM - J. Moringen

- *Status changed from New to Resolved*

- *% Done changed from 0 to 100*

Applied in changeset rsc|commit:acc95ee083f56cc63acd2f396bf47035a8da21f6.