libpibox - Feature #751
Add function to find X.org VT

10 Mar 2020 17:37 - Hammel

Status:	Closed		**Start date:**	10 Mar 2020
Priority:	Immediate		**Due date:**	
Assignee:	Hammel		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:	2.0 - Harkonnen			
Severity:	01 - Critical			

Description

This can be done with this command:

    ps -l | grep "X :0" | grep -v grep | tr -s " "| cut -f7 -d" "

This doesn't appear to fail under ash (Busybox shell) if the first grep doesn't find anything. We can use this to find the correct "vtsrc" for any app.

Associated revisions

Revision 231b52d6 - 11 Aug 2020 18:11 - Hammel

RM #751: Add piboxGetVTNum() to find current and next VT's for vt-switching when launching and killing omxplayer.

Revision e429027d - 11 Aug 2020 18:15 - Hammel

RM #751: Add a string version and an int version of functions for retrieving a VT number. The former works with any named process but must make a shell call to get the VT. The latter works only for the current process and uses an ioctl.

Revision 088d57a3 - 11 Aug 2020 18:15 - Hammel

Merge branch 'RM-751' into 'master'

RM #751: Add a string version and an int version of functions for retrieving a...

See merge request pibox/libpibox!1

History

#1 - 03 Jun 2020 16:57 - Hammel

- Severity changed from 03 - Medium to 01 - Critical

This was a problem during release testing for 1.1 on B/B+ models so I'm moving it up in severity.

#2 - 22 Jul 2020 22:42 - Hammel

- Priority changed from High to Immediate

#3 - 23 Jul 2020 20:17 - Hammel

- Status changed from New to In Progress

- % Done changed from 0 to 10

Programmatic option (maybe): https://www.helpnetsecurity.com/2002/04/08/console-ioctls-under-linux/

Example code: https://img2.helpnetsecurity.com/dl/articles/txt/console18.txt

Look for VT_GETSTATE.

Also see console_ioctl in man pages.

The library should get the VT the app was started on. Then it can have set_vt() and restore_vt() modes to move away from and back to the original VT.

#4 - 26 Jul 2020 19:45 - Hammel

- % Done changed from 10 to 20

I Have a branch with functions for supporting getting the VT for the current process (getVTNum) and any named process (getVT) in the RM-751 branch of libpibox.

The merge request for this is here: https://gitlab.com/pibox/libpibox/-/merge_requests/1

These functions need to be tested. There are unit tests already written. There is no app currently using this so I think adding it to videofe would be the best place to start (since it needs it most).

#5 - 27 Jul 2020 19:41 - Hammel

- % Done changed from 20 to 50

Unit tests are implemented and run successfully.

Now I need to test with videofe.

#6 - 11 Aug 2020 15:49 - Hammel

- % Done changed from 50 to 60

Initial test without full media system shows piboxGetVTNum() works as expected in videofe. It finds the vt that X is on. This was true even when I remotely logged in, set DISPLAY=unix:0.0 and ran videofe.

A more complete test is needed to make sure videofe switches vts correctly given the use of the new piboxGetVTNum() api.

#7 - 11 Aug 2020 16:02 - Hammel

- % Done changed from 60 to 70

Works on touchscreen/rpi3. Need to test on monitor/rpi2.

#8 - 11 Aug 2020 18:10 - Hammel

- % Done changed from 70 to 90

Verified working on monitor/rpi2.

Just need to commit and push now.

#9 - 11 Aug 2020 18:17 - Hammel

- Status changed from In Progress to Closed

- % Done changed from 90 to 100

All changes committed and pushed. All PR's approved and merged.

Closing issue.