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Basic linux framebuffer bootsplash daemon for RaspberryPI and other embedded computers

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data	implemented support for systemd	4 years ago
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AUTHORS	updated email address	3 years ago
COPYING	initial commit comment	4 years ago
ChangeLog	initial commit comment	4 years ago
INSTALL	initial commit comment	4 years ago
Makefile.am	initial commit comment	4 years ago
Makefile.in	initial commit comment	4 years ago
NEWS	initial commit comment	4 years ago
README	implemented support for systemd	4 years ago
README.md	modified documentation	4 years ago
aclocal.m4	initial commit comment	4 years ago
compile	initial commit comment	4 years ago
config.guess	initial commit comment	4 years ago
config.sub	initial commit comment	4 years ago
configure	initial commit comment	4 years ago
configure.ac	initial commit comment	4 years ago
depcomp	initial commit comment	4 years ago
install-sh	initial commit comment	4 years ago
missing	initial commit comment	4 years ago
mkinstalldirs	initial commit comment	4 years ago

README.md

GnublinBootSplash

Basic linux framebuffer bootsplash daemon, to display configureable boot screen on small, embedded, LCD screens which are supported by a framebuffer driver/module, opening a framebuffer (e.g.: /dev/fb1) device. Originally it was made for a GNUbLIN (<http://gnublin.embeddedd-projects.net>) mini LINUX ARM computer with a greyscale LCD for an embedded project. However GnublinBootSplash is now ported to Raspberry PI, tested with ARCH linux (but as well debian and for sure runs with others...). It runs with traditional SystemV startup scripts but as well systemd, using kdbus to obtain boot information.

Notice

This is a experimental project shared here. It doesn't claim to be complete neither in code nor in documentation.

dependencies

- Directfb >= 0.9.20
- Glib >= 2.0
- libsystemd if using together with systemd and kdbus
- kdbus enabled linux kernel

How it works

basic configuration

GnublinBootSplash takes a small number of configuration parameters from command line and is configured trough a GLib style configuration file (/etc/gnublinbootsplash.cfg). It is started either as a SystemV or as a systemd daemon. See as well [README](#) file

Legacy mode

- in "legacy mode" GnublinBootSplash opens a fifo and takes text based messages to be displayed and to set progress bar e.g:

```
~> echo "message=booting service xyz;percent=20" >/tmp/bootsplash.fifo
```

Following parameters in messages are understood:

- message= : let GnublinBootSplash print a status message to the display
- percent=<number 0-100> : sets the progress bar of the bootsplash
- help : prints a help to the system log ;-)
- exit : let the bootsplash daemon clean up and exit

multiple parameters might be combined and seperated by a ','; no space has to follow the colon. The bootinformation passed to the fifo need to come from the SystemV startup scripts by adding the above pretend "echo" line to the startup scripts.

Systemd mode

GnublinBootSplash connects to 0-system kdbus and obtains boot information there. Once it is started it works automatically. there is no fifo created and there is no need to pass any message to it.

Installation

clone GnublinBootSplash to your local computer and run

```
./configure
```

if kdbus/systemd otion should be enabled

```
./configure --enable-sdbusio
```

enables systemd mode. next is to do a

```
make
make install
```

finally add the bootsplash daemon to startup by creating either a SystemV startup script or a systemd service file.

ToDo

- start stop scripts for SystemV and systemd
- any handling to quit the daemon in systemd mode, in SystemV mode it might be quit by startx script e.g. by sending

```
~> echo "quit" >/tmp/bootsplash.fifo
```

to the daemon to release framebuffer and stop it.

