Running Java FX in Alarm

Inhaltsverzeichnis

1   Installing Java FX with alarm repros

1.1 Prep install

Installing sd card as usual

go into with putty

std upgrade

```
pacman -Sy
pacman -Su
```
add mc

```
pacman -S mc
```

1.1.1 install openjdk

pacman –S jre8–openjdk

hints while download

> For the complete set of Java binaries to be available in your PATH,
> you need to re-login or source /etc/profile.d/jre.sh
> Please note that this package does not support forcing JAVA_HOME as former package java-common did

and

> Optional dependencies for jre8-openjdk-headless
> java-rhino: for some JavaScript support

and

> Optional dependencies for xdg-utils
>   kde-cli-tools: for KDE Plasma5 support in xdg-open
>   libgnome: for GNOME support in xdg-open
>   exo: for Xfce support in xdg-open
>   xorg-xprop: for Xfce support in xdg-open
>   pcmanfm: for LXDE support in xdg-open
>   perl-file-mimeinfo: for generic support in xdg-open

and

> when you use a non-reparenting window manager,
> set _JAVA_AWT_WM_NONREPARENTING=1 in /etc/profile.d/jre.sh
> Optional dependencies for jre8-openjdk
>   icedtea-web: web browser plugin + Java Web Start
>   alsa-lib: for basic sound support
>   gtk2: for the Gtk+ look and feel - desktop usage
>   java-openjfx: for JavaFX GUI components support

try of

```
pacman -S java-openjfx
```
unknown package

1.1.2 F....

calling

```
java
java -version
```
crashes

1.2 Running other jre

1.2.1 jre_8u6

Runs … makes screen keyboard …. error messages on touch

1.2.2 jre_raspbian

Startet … stoppt bei font problem

after x install → runs

Mouse; touch ok … no keyboard

1.2.3 jre_b1

Jre 8u91 oracle hard float with self compiled

stoppt auch wegen fonts

```
pacman -S ttf-font
default 1
```
no Change

lib test

ldd –r libjavafx_font_freetype.so

```
libgtk-x11-2.0.so.0 => not found
libgdk-x11-2.0.so.0 => not found
libatk-1.0.so.0 => not found
libpangoft2-1.0.so.0 => not found
libpangocairo-1.0.so.0 => not found
libgdk_pixbuf-2.0.so.0 => not found
libcairo.so.2 => not found
libpango-1.0.so.0 => not found
libXtst.so.6 => not found
```
ldd –r libjavafx_font_pango.so

```
libgtk-x11-2.0.so.0 => not found
libgdk-x11-2.0.so.0 => not found
libatk-1.0.so.0 => not found
libpangoft2-1.0.so.0 => not found
libpangocairo-1.0.so.0 => not found
libgdk_pixbuf-2.0.so.0 => not found
libcairo.so.2 => not found
libpango-1.0.so.0 => not found
libXtst.so.6 => not found
undefined symbol: .. a lot
```

pacman –S all not found

after x install

Mouse; touch ok … no keyboard

1.3 jre_r2

Raspbian jre and self compiled overwritten → same problem … no fonts

after x install

Mouse; touch ok … no keyboard

deleted because has no more meaning

1.4 Fontconfig

http://docs.oracle.com/javase/8/docs/technotes/guides/intl/fontconfig.html

1.5 arch java switcher

/usr/bin/archlinux-java

defines in head

```
JVM_DIR=/usr/lib/jvm
DEFAULT_NAME=default
DEFAULT_PATH=${JVM_DIR}/${DEFAULT_NAME}
DEFAULT_NAME_JRE=default-runtime
DEFAULT_PATH_JRE=${JVM_DIR}/${DEFAULT_NAME_JRE}
```

2 Takeout xenial

2.1 jre_xenial_x

Install and start ubuntu mate on raspi 2

>   apt-get install openjfx

run and test in x server

extract with copy by follow links

>   cp -L -R jre /media/manni/KNOPPIX

test in arch linux with /root/.xinitrc

>   /mnt/jre_xenial_x/bin/java -jar /mnt/wwt1.jar

runs good with x single app and good sized fonts

2.2 jre_xenial_fb

adding

>   lib/javafx.platform.properties

and

>   lib/arm/libglass_monocle.so

runs without x but incredible slow .. not usable

2.3 jre_xenial_x2

Adding the extracted from the ubuntu mate xenial .deb paketes and combine with sun/oracle 8u91 jre from jrecreate and run as a single x–app

best performance and text view

3 Xorg

Install xorg in arch with optional lxde

```
pacman -S xorg
pacman -S xterm
pacman -S lxde
pacman -S xorg-xinit
```

start with

```
startx startlxde
```

3.1 xinitrc

Single command line in /root/.xinitrc

starts a single java app without x decorations

info about display manager

https://wiki.archlinux.org/index.php/Display_manager#Starting_applications_without_a_window_manager