Running Java FX in Alarm

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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

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

and

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 -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

 $\underline{http://docs.oracle.com/javase/8/docs/technotes/guides/intl/fontconfig.html}$

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 openifx 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

4 Sound

```
Again test sound with fresh alarm must install
```

alsa-lib alsa-utils

or javasound does not show the interfaces

then suXessful run of Scarlett 2i4 and iTwo

alarm needs add on for hifiberry-amp

config.txt add line

gpu_mem=384 dtoverlay=hifiberry-amp