Ji Gong

Freedom

vs.

FUD ?

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FOSDEM '14

JogAmp

Who are u?

Programmers

Computer exorcists

Users

......

JogAmp Community

http://jogamp.org

What do u do?

- Java Graphics, Audio, Media & Processing

  High Performance Bindings

- One Stop Community Platform

  - SCM, Bugtracking, Build Server, Mailinglist/Forum,..

- Open & Vendor Independent

- BSD License

Our babies {
Gluegen

JOAL

JOGL

JOCL

Info

Slides and BOF Video

will be made available

on

jogamp.org.

What the heck is *Ji Gong*?

http://art.newexpo.com

The Buddhist monk Daoji (Ji Gong): openly ate meat & drank wine & wear tattered and dirty robes from traveling.

However, he was kind hearted & roamed the streets and helped people whenever he could.

What the heck is *Ji Gong*?

It does **not**:

- Implement a VM technology

- Create a new Ecosystem

- Involve Lawyers :)

It **does**:

- Build upon existing work

- Ensure availability on **all** platforms and devices, for real.

- Enhance parts to enable them across devices (*IcedTea-Web* ..)

- Use alternative VM Tech (Dalvik, RoboVM, LLVM-IR ..)

Don't u know there's something called *OpenJDK* and *IcedTea*?
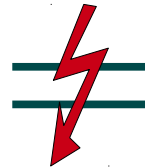
❤️ GPLv2 Ecosystem

IcedTea – our freedom fighter:

- Breathed life into the *code dump* by *Sun Microsystems*.

- Added missing parts

- Enabled building the beast on Unix platforms

- Supports **mobile CPU** architectures

- Merges **alternative VM** implementations [*usable for **mobile***]

- Creates and supports a JNLP and Browser Plugin (**deployment**).

Don't u know there's something called *OpenJDK* and *IcedTea*?

However,

intent and *priorities*
in the corporate world ≠ what users would like
to experience

Freedom-wise and *technology*-wise

But hey!

Isn't it a *free software?*

Can't we act ?

Why do u still create *Ji Gong*?

OpenJDK

IcedTea

Oracle ?

GPL

Ji Gong

4 Freedoms

Fear, **U**ncertainty, **D**oubt ?

• for any purpose ..

Patent grant for desktop only

• change it .. as you wish ..

Mobile use *may* be prohibited?

• redistribute copies

No explicit nor official statement?

• distribute .. modified versions ..

Freedom

vs.

?

FUD

Why do u still create *Ji Gong*?

OpenJDK

IcedTea	*Oracle* ?

GPL

Ji Gong

4 Freedoms

- of speech
- of worship
- from want
- from fear

       --- Bill of Rights!

Free Software,
     as in **freedom**!

Fear, **U**ncertainty, **D**oubt ?

Patent grant for desktop only

Mobile use *may* be prohibited?

No explicit nor official statement?

Why do u still create *Ji Gong*?

OpenJDK

IcedTea   *Oracle* ?

Ji Gong

4 Freedoms   **F**ear, **U**ncertainty, **D**oubt ?

VM technology across   Windows?
platforms and devices   No OpenJDK builds   OSX?
                             No IcedTea-Web builds   for   Android?
                                                          ...

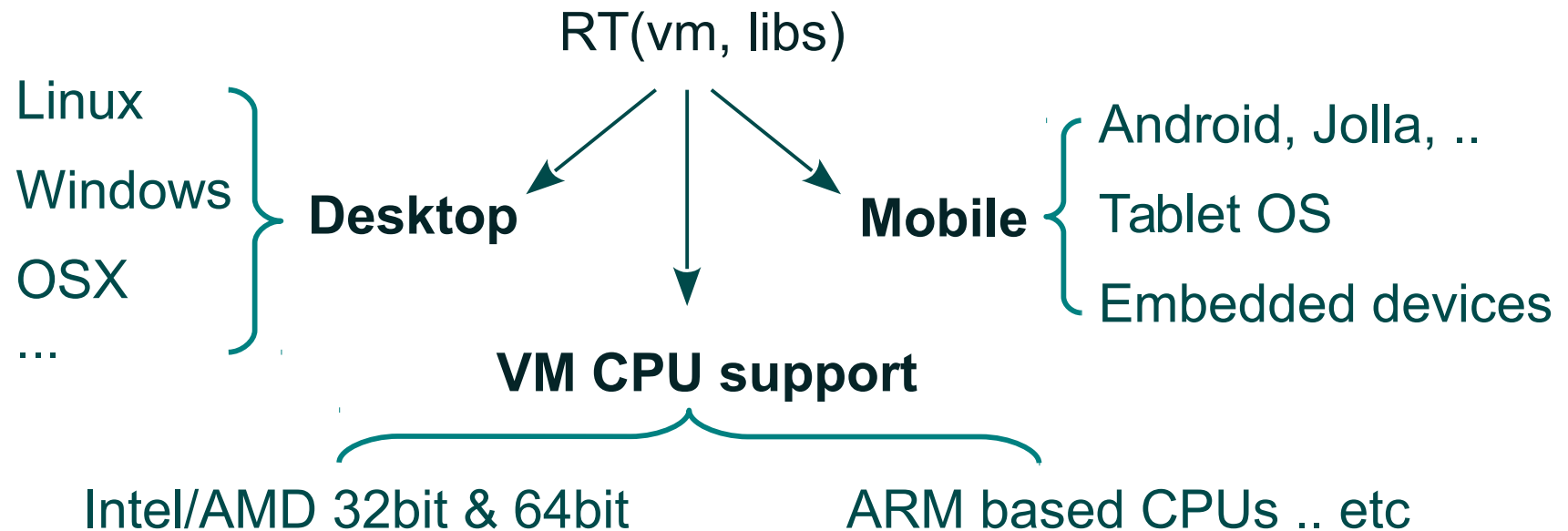FOSDEM '14   JA JOGAMP

Technical enhancement?

- **Availability** of GPLv2 based OpenJDK / IcedTea Runtime Environment (RT)

- Web Plugin based on IcedTea-Web (JWeb)

- Source Certification Contract (SCC)

Technical enhancement?

- **Availability** of GPLv2 based OpenJDK / IcedTea
  Runtime Environment (RT)

RT(vm, libs)

Linux
Windows
OSX
...
} **Desktop**

Mobile {
Android, Jolla, ..
Tablet OS
Embedded devices

VM CPU support

Intel/AMD 32bit & 64bit   ARM based CPUs .. etc

Technical enhancement?

- Web Plugin based on IcedTea-Web (JWeb)

  - NativeWindow based plugin **without** AWT

  - Allow utilization of any native Windowing Toolkit

  - Enable Applets on mobile devices

Browser

Plugin
- RT(vm, libs)
- Plugin-Code

NativeWindow

User Applet
- NEWT / … ?
- JOGL / .. ?

Technical enhancement?

- Source Certification Contract (SCC)

  - Not yet based solely on source code (***toolchain***)

  - Replace Certification Authority (CA) with Chain of Trust

    ✓ Use gpg, pgp, ..

    ✓ Why ***trust*** a company and force users to pay?

  - Gracefully revoke binary builds with security flaws:

    ✓ Revoke compromised binary signatures instead of author's Identity

    ✓ Store binary signatures inside public accessible source code repositories

    ✓ Ease access to the binary's source code

Who benefits from *Ji Gong*?

- Users

  - Unified Experience across Devices

  - Enhanced trust in the source code and its developers!

- Platform Designers (devices)

  - Clarify licensing issues

  - Confidence in choosing a VM technology

  - Enhanced collaboration with community

- Software Developer

  - Ease collaboration with the community

  - Revoke the binary instead of the author's identity

Thank You & Love You

OpenJDK

Xerxes Ranby

IcedTea

IcedTea-Web

Rami Santina

Sven Gothel

Julien Gouesse

Harvey Harrison

Mark Raynsford

Wade Walker

… all the many contributors & users

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