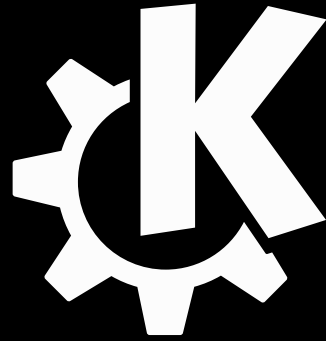


**Embedded linux is a glorious
*lie***



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Been doing KDE things for ages



Employed by MBition GmbH, putting KDE and
Wayland in Mercedes cars



KDE e.V. President, at your service

What do we mean by Embedded linux?

Embedded Linux is built on **the same Linux kernel**, available from kernel.org, as all Linux systems. But embedded systems have tight constraints that enterprise systems simply don't have, ranging from higher **reliability** and **security** requirements to **tighter resource availability** and the need for engineering **support** that often lasts 10 years or more.

Source: windriver.com

Does KDE not care about...

...security?

...resources?

...reliability

...availability?

Why do I call it a *lie*?

How does it differ from any other linux?

A useful *lie*...

... to create a system that *just works*

... to allow the licence to fork and adapt software

Record scratch




Where do we come from in KDE and FOSS?

Are we complicating things?

Are we shifting the responsibility to the user?

**What does KDE know about
how our software is to be
used?**

Breaking this *lie* down:

-  How can we better serve industry partners?
-  What can we learn from it?
-  Which strategies will better serve us?

**They'll patch your code until it
fulfills their requirements**



**Create and document
strategies to extend without
modifying (patching/forking)**



Encourage contributing changes upstream



They'll be using old (and eventually buggy) versions of the software



**Be mindful about
compatibility, document
porting tasks when possible**



**They'll be unfamiliar with our
ways**

**... making something simpler
is always a good idea**



**Allowing cross-process
interaction helps to simplify**



Organisations often opt for FOSS solutions when they aren't their main focus or priority



**Having other organisations
base their work on our
products helps us stay stable**



They will likely be testing their own things, making it easier to test helps make that happen



But hey !

We are not here to serve you!!

But we are not that different...

**... we too struggle with
embracing varied form factors**

**... we too need to extend our
functionalities**




**... we too need support
complex features over time**

**We do want the world to build
upon our standards, tech and
solutions**

Where does that leave us?




Let's reconsider which levels we are abstracting for

Are we confident about our security model?




-  What is an app?
-  Is the OS still the main software provider to our users?
-  Are our sandboxing models ready to export as a solution to embedded vendors?

**Is ABI as important as it used
to be?**

Take-aways, for others to use our stuff

-  When our software is easy to consume, we all win
-  Collaboration makes us all stronger
-  Abstract only what's useful to abstract

Take-aways, for our products

-  We should sit on tools that allow us to create the product we want
-  We probably need to have a plan for when upstream needs addressing
-  We should sit on tech that allows us to embrace different form factors and architectures

**Was then Plasma an
embedded product all along?**



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