Qubes Hardware Certification

Qubes OS and 3mdeb mini-summit 2019

Piotr Król



Disclaimer

- Opinions are my own and represent view of my employer
- We do not follow very close Qubes OS development and discussions
- We came from embedded and firmware world our experience with general-user-facing system is low

Qubes statement (2 years old)

- we're working hard to make a "reasonably secure laptop" a reality
 - can we ask what does it mean?
 - what is the progress of that effort?
 - is there any place for Open Source Firmware consulting company?
 - there are many companies trying the same
- Serious prospective business customers should [contact us] for more information
 - We would like to understand what that means
 - Feasible?



x86 considered harmful

- Are there any architecture which can be considered not-harmful?
 - ARM
 - poisoned supply chain
 - hard to build general purpose computer for masses
 - UEFI
 - mobile solutions
 - Purism effort around i.MX8
 - OpenPOWER
 - very expensive
 - we are not sure about exact state since we never worked with this architecture
 - RISC-V
 - we think it is very promising
- even if CPU is clear, we have to face tons of other blobs in different system components
 - firmware is everywhere

- coreboot
 - do you see any alternatives to open-source boot firmware?
 - BTW it really like your precise naming
- Intel FSP
 - it looks that there are serious plans to open source FSP
 - BootROM in x86
- (CS)ME/IE
 - after many PT revelations lots of interesting things happen
 - any comments on that?

Hardware certification

- Not only hardware vendors are interested in that
 - OEM/ODM
 - Embedded Systems Consulting
- Customers often come to us from Qubes OS website
 - Thank you
 - Qubes OS (hw cert) -> coreboot -> consulting -> 3mdeb
- Qubes certified laptop

UEFI issues

- Are there any real issues with UEFI in light of certification?
- IBVs are not very welcome in current ecosystem
- Does Qubes OS see some implementation problems with UEFI implementation
 - What are the things users complain?
 - Any hard to debug/workaround/fix bugs affecting OS?

Qubes OS and 3mdeb

- Is there a place for Qubes OS and companies like 3mdeb to cooperate?
 - what areas?
 - how we can help each other assuming reasonable resources?
- Discussion



Q&A

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