

- **Regan Robertson** Mod • 14 days ago

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**Gernot** • 14 days ago

Thanks for attending my talk!

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**Jason H Li** • 14 days ago

Can't agree more. Simple, static arch/config/allocation work great for embedded and CPS!

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**Ihor Kuz** Raymond Richards • 14 days ago

I was expecting the you were the person that could answer that question!

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**Raymond Richards** Ihor Kuz • 14 days ago

Ha! It is often the case that people using technologies that I have supported don't think to let me know that they are using it. And, people in the Pentagon are seemingly only impressed by technologies that have reached operations.

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**Ihor Kuz** Raymond Richards • 14 days ago

We have the same problem - no one tells us that they use seL4 - unless something goes wrong and they need help :-)

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**Carl Nerup** Ihor Kuz · 14 days ago

Well, it gives me pleasure to say that Cog has an answer to that question. It is a USG project (DOD) - so have to be prudent on discussing it in a public forum. Ray - will call you with it direct.

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**Paul Pazandak** Raymond Richards · 14 days ago · edited

Isn't Ghost Automotive is using seL4 in a product they are selling?  
Also, I heard that some very large corps were using it... let me validate that rumor and get back to you Ray.

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**Gernot** Raymond Richards • 14 days ago

The one thing I can point to that's in actual use is the AltoCryp secure comms stick by Penten, in use in UK and AU defence

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**Jason H Li** Gernot • 14 days ago

In ops use or S&T use? For latter we have examples, but yet to see former - actual deployment.

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**Gernot** Jason H Li • 14 days ago

ops AFAIK

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**Gernot** Raymond Richards • 14 days ago

There was the Navy project among the HACMS transition followups, I'd think that would be in actual use by now?

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**Nathaniel Husted** Gernot • 14 days ago • edited

I've heard that fizzled out but would need to check with the folks I knew who were monitoring that endeavor. I have a POC I haven't had a chance to reach out to yet in that corner of the Navy to ask. I know some folks, myself included, are attempting to promote seL4s use in other parts of the Navy.

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**Carl Nerup** Nathaniel Husted • 14 days ago

Actually, we are seeing progress in NavAir. Again, need to leave details out of the public forum. But, they are seeking funding.

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**Nathaniel Husted** Carl Nerup • 14 days ago

Awesome! That's great to hear!

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**Gernot** • 14 days ago

The power-of-two alignment of MRs is what we just decided to drop. As you can see, some details of the design are still a bit in flux. And, of course, things will not be finalised until the proposal has undergone the RFC process

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**Jason H Li** • 14 days ago

audio blip. Am I the only one?

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**Gernot** Jason H Li • 14 days ago

No, there are plenty of those. They are only in the live feed, not in the downloaded video

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**Renato Levy** Jason H Li • 14 days ago

from time to time, but workable

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**Olin Sibert** • 14 days ago

This looks like a very clean set of system-building abstractions. I particularly like the priority scheduling integration. Nice! Clearly, we've learned a few things since Unix v5.

What is the intended relationship between this platform and CAMkES?

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**Gernot** Olin Sibert • 14 days ago

The (initial) implementation will build on CAMkES. This may change, but there's good reasons to stay with CAMkES, as we then inherit the assurance story around CAMkES/CapDL

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**Jason H Li** Olin Sibert • 14 days ago

Glad someone mentioned Unix V! Admired that source code.

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**Gernot** Nathaniel Husted • 14 days ago

I think most folks start with a Linux VM. It really depends on what your legacy system is based on. Obviously, the more lightweight the better, smaller TCB...

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**Robbie VanVossen** Nathaniel Husted • 14 days ago

We have found a lot of success using Yocto to build up our Linux VM filesystems. It is based on openembedded, which essentially uses busybox as a base and then adds a lot of extra around it.

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**Lennart Beringer** • 14 days ago

How much of a functional (abstract) model do you already have of the Core Platform? What's the development/verification workflow for this: bottom up starting with, say, C code or top-down, or a mix? Ie. were there any lessons in this regard from the kernel work?

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**Gernot** Lennart Beringer • 14 days ago

So far we haven't built it, so the question is a bit premature ;-)

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**Gernot** • 14 days ago

I'm pleased to announce that the RFC on the seL4 Core Platform is out: <https://sel4.atlassian.net/...>

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**Ihor Kuz** • 14 days ago

RFC: <https://sel4.atlassian.net/...>

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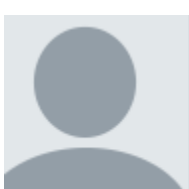
**Gernot** • 14 days ago

Also, there's a related RFC for the seL4 Core: <https://sel4.atlassian.net/...>

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**Carl Nerup** • 14 days ago

Ihor - this is really a critical discussion point. Thank you.