



Security HC

1st October 2024

Agenda

- John Ingalls (sifive) has two fast track proposals that were discussed at the chairs meeting this week.
 - Do we have any discussion points or agenda topics for the members day open slots ?
 - We have slots for Security HC, Runtime integrity SIG and Trusted computing SIG.
 - For Security HC we plan to give an update overview based on the latest deck on google drive
- Please all chairs update slide 5 of
https://docs.google.com/presentation/d/19pXyRsSqXyy5XeodcjDkTYsFdgy2GwCzz09Ic_3Ojwg/edit?usp=sharing
RTI SIG will discuss MTE.
Any topics to be discussed please mail the relevant SIG or security @lists.riscv.org

Fast tracks

- ❑ ‘Svukte’ provides a simple mechanism checking the top address bit to prevent side channel timing attacks on Kernel Address Space Layout Randomization (KASLR). https://docs.google.com/presentation/d/1N8bYBjQSMWahFSOY4zf4a1fnel7SpWwzv-QyVG_-CCI
- ❑ Concerns expressed that the ACTs are complete to a minimum standard prior to ratification – i.e. more than just CSR presence.
- ❑ ‘Smpmpmt is a straightforward addition of the Svpbmt (Page Based Memory Type) override control ability to the PMP CSRs for control of memory types even in the absence of virtual memory overrides. https://docs.google.com/presentation/d/1fKnMUc2H5BqSw0inxcPyJpyaZQykAPvpoWlyx6l_ajQ'
 - ❑ Needs discussion about its interaction, or lack thereof, with EPMP.
- ❑ Request to clarify composition with other PMA sources, and how entry PMP priority affects composition.
- ❑ It was noted that PMP resources are limited, and additional regions for memory type may not be available.
- ❑ Scheme will fit with ePMP and SPMP, but above consideration need documenting.