



Intel Program Update

Scott Lamons, Program Manager

FreeBSD Foundation

Glenn Weinberg, Strategic Programs

Intel



Sponsorship & Goals

- \$250K donation announced at AsiaBSDcon...
- Demonstrate support for FreeBSD as a viable open-source operating system
- Foster collaboration between Intel, the FreeBSD Foundation and the FreeBSD community
- Improve the level and timeliness of support for Intel products in FreeBSD (Intel® CPUs, networking products, SSDs, technologies such as Intel® Quick Assist, and timely support for future technologies Intel® 3D XPoint™)



Development Systems (pre-production)

SkylakeD SoC – Yuba City

- 4x 10Gb Ethernet w/iWARP/RDMA
- QuickAssist Tech (QAT)

SkylakeX -

- Dual Socket (XEON Platinum)
- 2x 10Gb Ethernet

Special Thanks! Sentex



SkylakeX Enablement

- Core PMC working
- Uncore PMC (in progress)
- IOAPIC work (r323326)
- AVX512 working & tested
- Watchdog timers (in progress)
- APIC Ids>255 (in progress)



WIP -- Future Work

- NUMA
- NVM
 - QEMU NFIT support
 - NFIT Enumeration
 - Kernel & File system support
 - NVML
- Ifflib
- QuickAssist Technology (QAT)



FreeBSD Foundation / Intel Partnership

scott@freebsd.foundation.org

glenn.weinberg@intel.com

