Tools and Tool Interfaces Outbrief

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Tools and Tool need a big topic

Started with a pre-existing list

Didn't cover complete topic list

Most discussion regarding

Binutils and liberty

Glibc

Liberty

Surprising number of issues with liberty.

▸ Many distro dependent variations

▸ Packaging problems

- .so not included

- .h file not in packages

▸ More investigation needed

glibc first party interfaces

Continued work on glibc first party tool interface needed

▸ Most important

- dynamic loader – adapt LD_AUDIT

- Hooks to allocator

▸ Inventory of things to hook and when it safe to hook

▸ Stacked hooks vs. Callbacks

glibc hooking interface

Hooking interface

▸ Gotcha

▸ Possible to write as a audit library – investigation needed

▸ Consider deprecating LD_PRELOAD – too many problems. Audit does it right with complications.

▸ Group work on design of this general purpose hooking interface.

Thank you

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