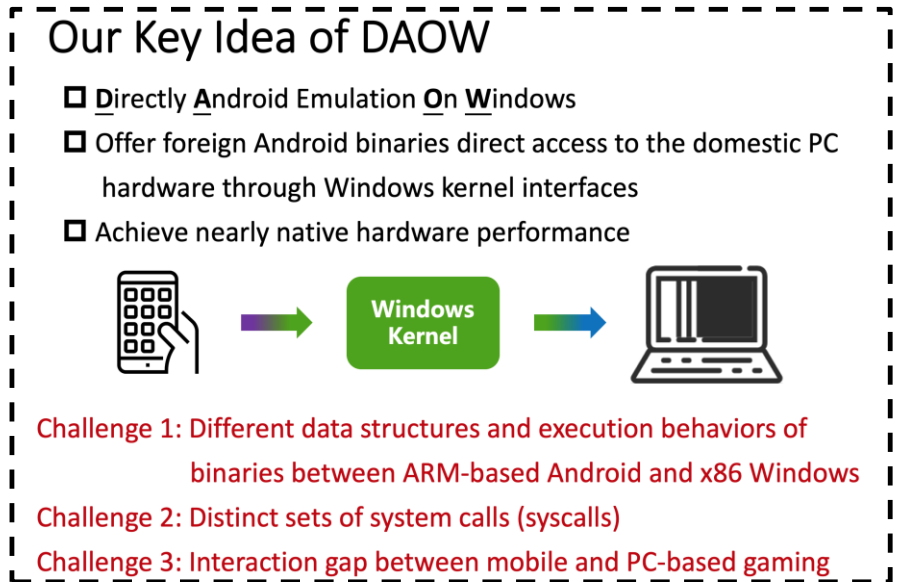
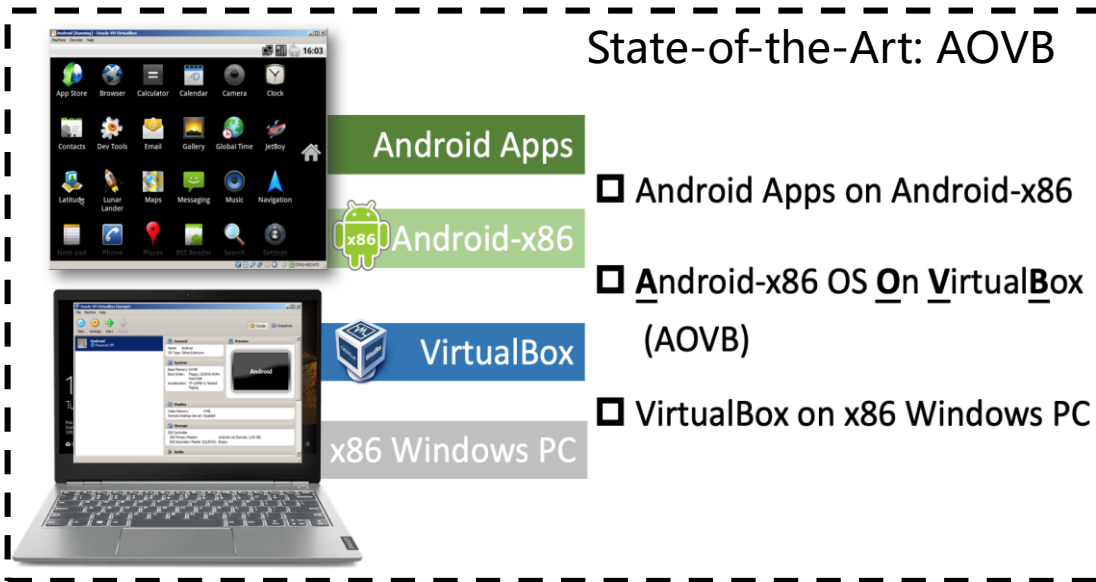
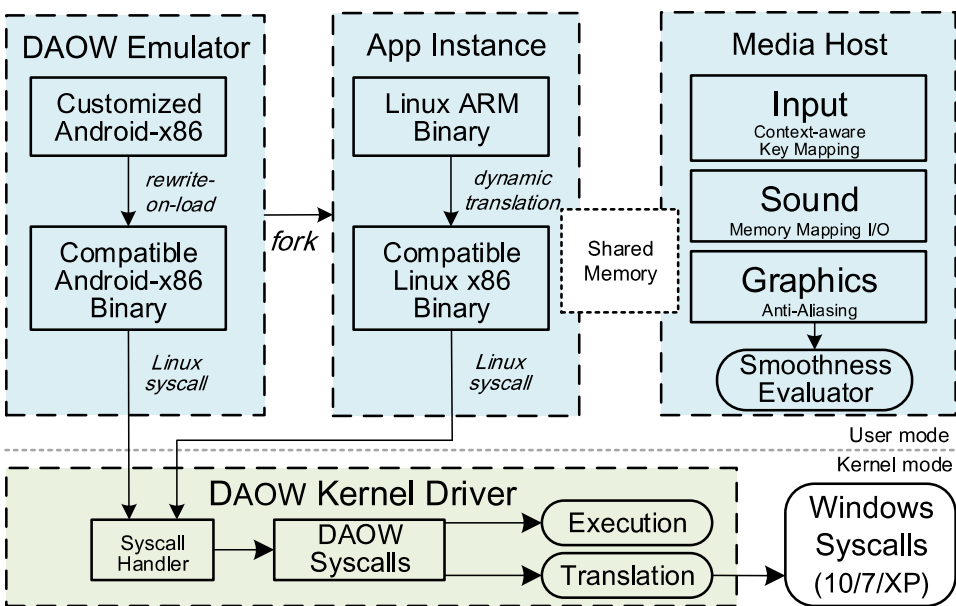


Mobile Gaming on Personal Computers with Direct Android Emulation

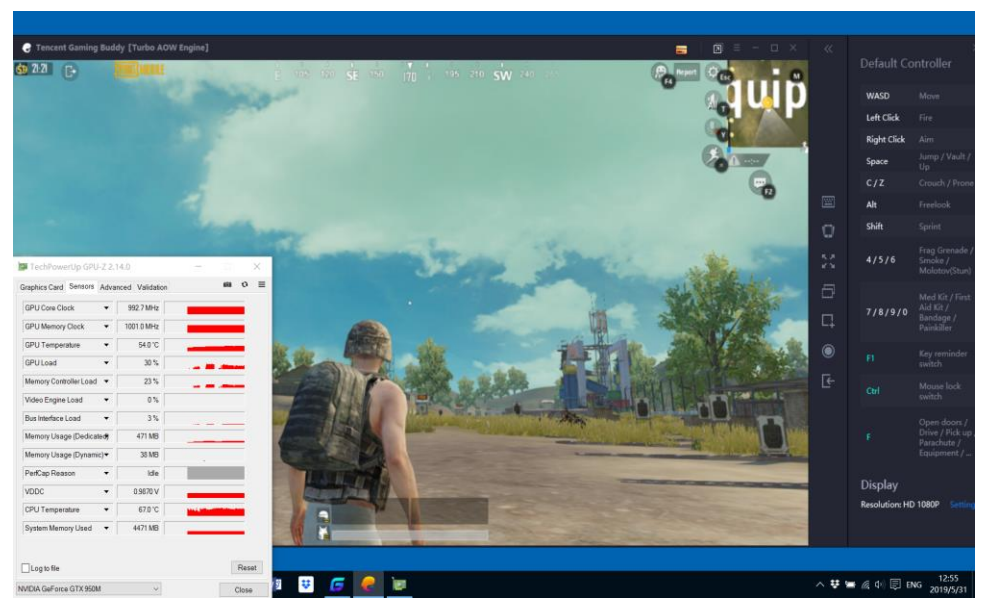
Qifan Yang, Xinlei Yang, Zhenhua Li, Yunhao Liu, Rui Zhou, Guoyang Du, Ziwen Wu, Tianyin Xu, Ennan Zhai



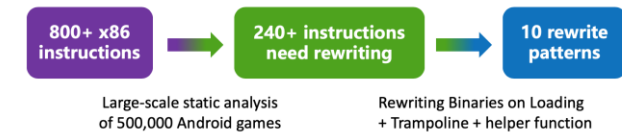
Architectural Overview of DAOW



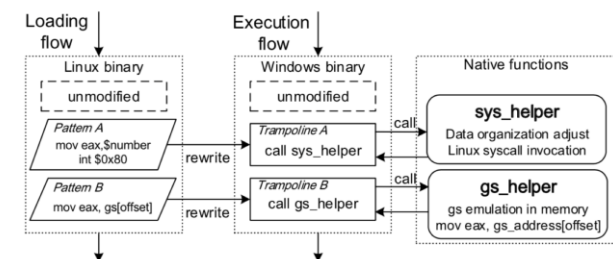
Screenshot of DAOW



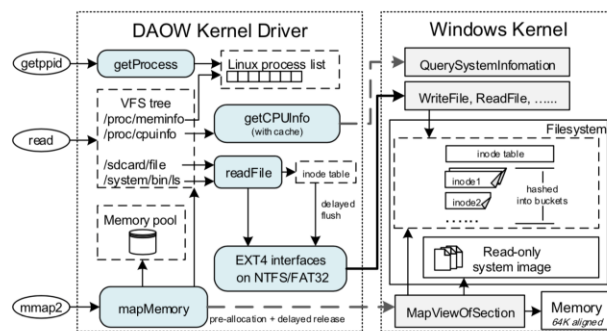
Linux x86 binary → Windows x86 binary



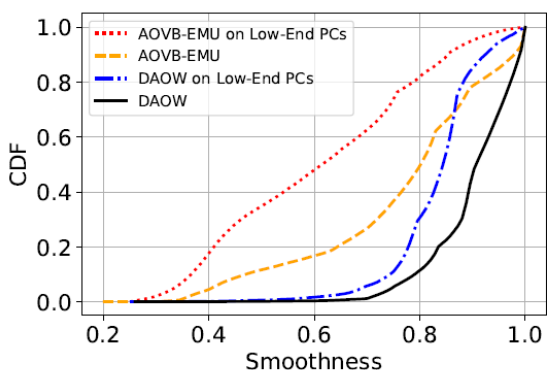
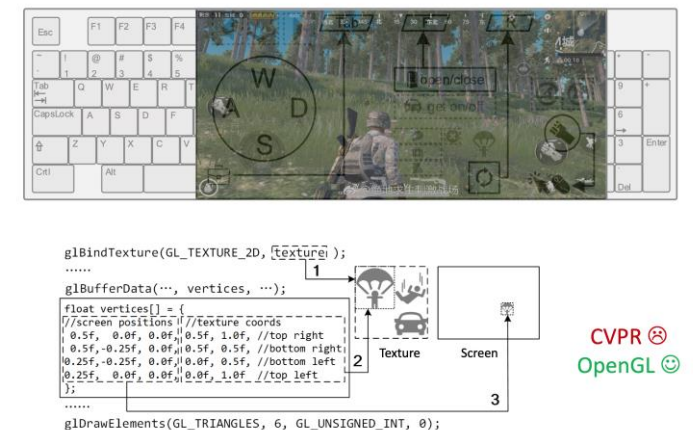
- Pattern A: Linux syscall interrupt incompatible with Windows
- Pattern B: Linux register gs inaccessible to 64-bit Windows



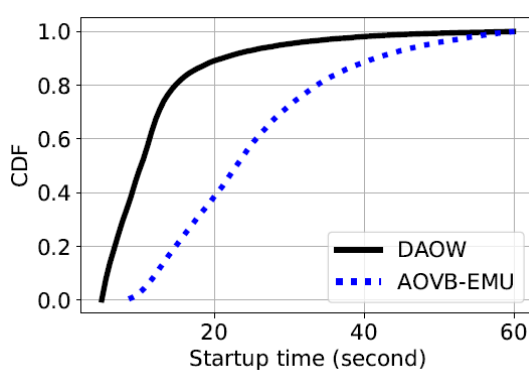
Linux syscalls → Windows syscalls



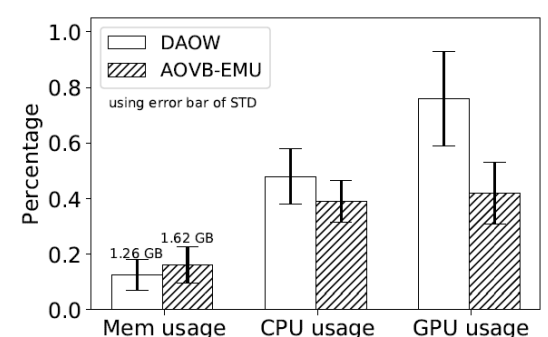
Interaction Gap: → Context-aware Key Mapping



Smoothness increase 21%: 0.76 → 0.92



Startup time decrease 48%: 25 → 13 sec



Memory usage decrease 22%