

# PTP\_KVM support for arm/arm64

PTP\_KVM is used for high precision time sync between host and guests. It relies on transferring the wall clock and counter value from the host to the guest using a KVM-specific hypercall.

- ARM\_SMCCC\_VENDOR\_HYP\_KVM\_PTP\_FUNC\_ID: 0x86000001

This hypercall uses the SMC32/HVC32 calling convention:

ARM\_SMCCC\_VENDOR\_HYP\_KVM\_PTP\_FUNC\_ID

Function ID:	(uint32)	0x86000001
Arguments:	(uint32)	KVM_PTP_VIRT_COUNTER(0) KVM_PTP_PHYS_COUNTER(1)
Return Values:	(int32) (uint32) (uint32) (uint32) (uint32)	NOT_SUPPORTED(-1) on error, or Upper 32 bits of wall clock time (r0) Lower 32 bits of wall clock time (r1) Upper 32 bits of counter (r2) Lower 32 bits of counter (r3)
Endianness:		No Restrictions.