## ABSTRACT

Embodiments of the present application provide a live migration method for a virtual machine, and a device, and a system, and a storage medium. An optimization solution is proposed for the traditional live migration architecture, a source host machine is configured with an acceleration device, so that on the side of the source host machine, the live migration work of a control plane and a data plane can be fully assigned to the acceleration device for execution, and the live migration work can be completed simply by means of a cooperation between a destination host machine and the acceleration device, which enables the live migration work to allow for zero dependence on resources of the source host machine. Even under a circumstance that computing resources of the source host machine are fully occupied, the performance of live migration will not be affected, and the live migration function achieves zero jitter for a virtual machine running on the source host machine.

Fig. 1a