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(54) Title: HIBERNATION METHOD AND RELATED DEVICE THEREOF

(54) 发明名称: 休眠方法及其相关设备

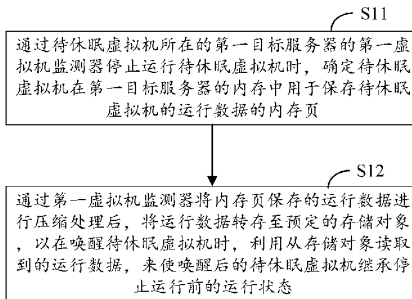


图 1

- S11 When running of a virtual machine to be hibernated is stopped by means of a first virtual machine monitor of a first target server where said virtual machine is located, determine a memory page, for storing running data of said virtual machine, of said virtual machine in a memory of the first target server
- S12 After the running data stored in the memory page is compressed by means of the first virtual machine monitor, transfer the running data to a preset storage object, so that when said virtual machine is awakened, by means of the running data read from the storage object, said virtual machine awakened can inherit the running state before the running is stopped

(57) Abstract: The present application relates to a hibernation method and a related device thereof. The method comprises: when running of a virtual machine to be hibernated is stopped by means of a first virtual machine monitor of a first target server where said virtual machine is located, determining a memory page, for storing running data of said virtual machine, of said virtual machine in a memory of the first target server; and after the running data stored in the memory page is compressed by means of the first virtual machine monitor, transferring the running data to a preset storage object, so that when said virtual machine is awakened, by means of

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the running data read from the storage object, said virtual machine awakened can inherit the running state before the running is stopped.
The present application solves the problems of hibernation failure and long hibernation time delay caused by the hibernation of a virtual
machine depending on the capability of a virtual machine operating system.

(57) 摘要: 本申请涉及一种休眠方法及其相关设备, 该方法包括: 通过待休眠虚拟机所在的第一目标
服务器的第一虚拟机监测器停止运行待休眠虚拟机时, 确定待休眠虚拟机在第一目标服务器的内存
中用于保存待休眠虚拟机的运行数据的内存页; 通过第一虚拟机监测器将内存页保存的运行数据进行
压缩处理后, 将运行数据转存至预定的存储对象, 以在唤醒待休眠虚拟机时, 利用从存储对象读取
到的所述运行数据, 来使唤醒后的待休眠虚拟机继承停止运行前的运行状态。本申请解决了虚拟机的
休眠依赖虚拟机操作系统的能力, 会导致休眠失败, 且休眠时延较长的问题。