

RESOURCE MANAGEMENT METHOD, HOST, AND ENDPOINT

ABSTRACT

5 The present invention provides a resource management technology that may be
applied to a host, where the host includes a CPU, an endpoint connected to the CPU,
and an I/O device connected to the endpoint. An method includes: allocating, by the
CPU, a target endpoint to a target process, where a virtual device is disposed on the
target endpoint; obtaining, by the target endpoint, a performance specification of the
target process, and adjusting a performance parameter of the virtual device according
10 to the performance specification, where the adjusted virtual device satisfies a total
requirement of performance specifications of all processes that use the target endpoint;
and when the target process needs to access a resource, obtaining, from the I/O device,
a resource that satisfies the performance specification of the target process, and
providing the obtained resource to the target process for use.

FIGURE 4