

ABSTRACT

A storage system and a system garbage collection method are provided. The storage system includes a first controller, a second controller, and a solid state disk. The first controller or the second controller manages storage space of the solid state disk in a unit of a segment. The first
5 controller is configured to perform system garbage collection on multiple segments of segments managed by the first controller. The second controller is configured to: when the first controller performs system garbage collection, perform system garbage collection on multiple segments of segments managed by the second controller. The multiple segments of the segments managed by the first controller and the multiple segments of the segments managed by the second controller are
10 allocated within a same time period. Therefore, a quantity of times of write amplification in the solid state disk can be reduced.

FIGURE 3