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ABSTRACT

MULTI-REQUESTER DETECTION OF POTENTIAL LOGICAL UNIT THRASHING AND PREEMPTIVE APPLICATION OF PREVENTIVE OR AMELIORATIVE MEASURES

An arbitrator component determines which of an active-passive pair of resource controllers (112, 114) is to be the active controller by detecting what access each of two I/O requesters (102, 104) has to the resource controllers (112, 114), and selecting one of the pair of resource controllers (112, 114) if both requesters (102, 104) have access, selecting the only one if one or both requesters (102, 104) have access to only one, and if each requester (102, 104) has access to a different controller (112, 114), preventing LUN thrashing by disabling I/O to one controller (112, 114) or easing LUN thrashing by enabling I/O, but disabling participation by one requester (102, 104) in determining which controller (112, 114) is selected to be active.

Fig. 1.