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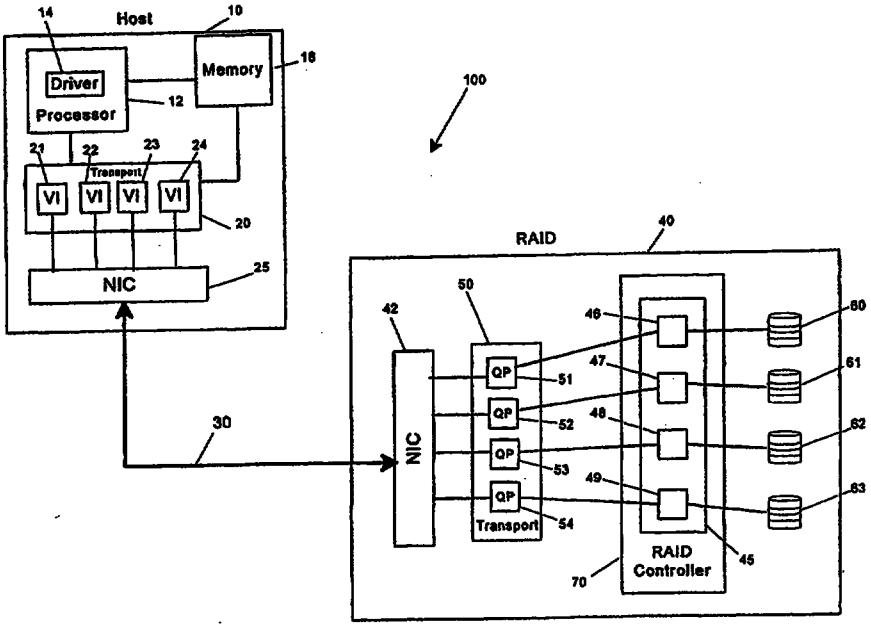
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(54) Title: RAID STRIPING USING MULTIPLE VIRTUAL CHANNELS



(57) Abstract

A RAID device (40) stripes data block across N disk drives (60–63). The RAID device (40) receives a storage request from a host computer (10) for the data block, and creates N virtual interface ("VI") queue pairs (51–54). The queue pairs (51–54) form N virtual channels to the host computer. Further, the RAID device posts a descriptor to each of the queue pairs (51–54), with each descriptor referring to 1/Nth of the data block. Further, the RAID device (40) receives 1/Nth of the data block over each of the virtual channels and writes each received 1/Nth data block to a different one of the N disk drives (60–63).