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(54) Title: SCHEDULING OPERATIONS USING A DEPENDENCY MATRIX

(57) Abstract

A method and apparatus for scheduling operations using a dependency matrix (520). A child operation is dependent on the completion of a parent operation, such as when one of the child operation's sources is the parent operation's destination. An entry corresponding to the child operation is compared with other entries in the scheduling queue (510). The result of this comparison is stored in a dependency matrix (520). Each row in the dependency matrix (520) corresponds to a dependency on an entry in the scheduling queue (510). Entries in the scheduling queue (510) can then be scheduled based on the information in the dependency matrix (520), such as when the entire row associated with an entry is clear.

