APPARATUS AND METHOD FOR FABRIC ORDERING LOAD/STORE TO INPUT/OUTPUT DEVICE AND DIRECT MEMORY ACCESS PEER-TO-PEER TRANSACTIONS

ABSTRACT

An apparatus and method for mediating a sequence of transactions across a fabric (120) in a data processing system are implemented. A fabric bridge (122) orders a preceding transaction and a subsequent transaction according to a predetermined protocol. Using the protocol a determination is made whether the subsequent transaction may be allowed to bypass the previous transaction, must be allowed to bypass the previous transaction, or must not be allowed to bypass the preceding transaction. Transactions include load/store (L/S) system memory and L/S to input/output (I/O) device, and direct memory access (DMA) to system memory and DMA peer–to-peer transactions.

FIG 1