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(54) Title: PRIORITY QUEUE FILTERING SYSTEM AND METHOD OF OPERATION

(57) Abstract

A priority queue filtering system (2) is provided. A filtered priority queue (10) comprises a remaining set (12) and a filtered set (14). The filtered set (14) contains a first subset of data records (20, 22, 24, 26, and 28). The first subset of data records (20, 22, 24, 26, and 28) form sublevels of a lattice. The remaining set (12) contains a second subset of data records (16 and 18). The second subset of data records (16 and 18) comprise lattice heads of the lattice. A sorting module (6) is coupled to the filtering module (4). The sorting module (6) is operable to access the remaining set (12) and is further operable to order the data records (16 and 18) in the second subset of data records to identify a data record (16) of a most critical entity.

