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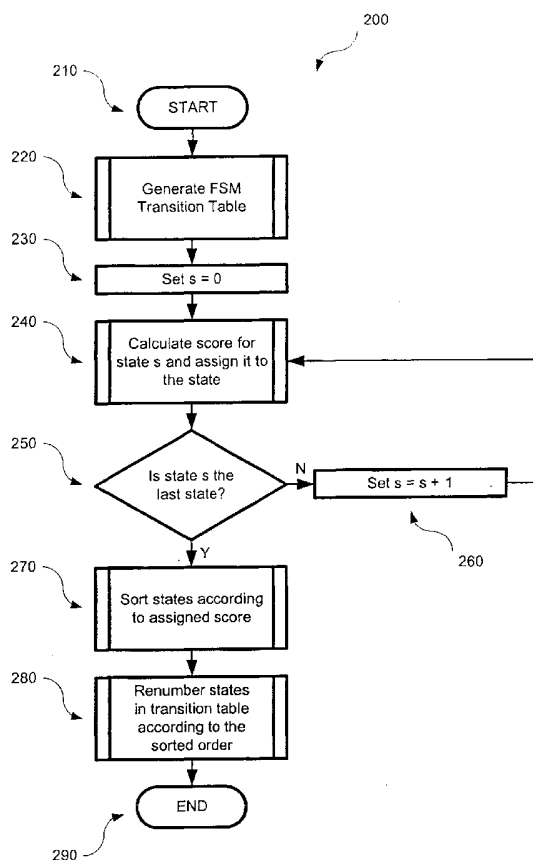
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[Continued on next page]

(54) Title: EFFICIENT REPRESENTATION OF STATE TRANSITION TABLES



(57) Abstract: The states associated with a programmable state machine (200) are reordered to compress the storage of transitions, which define the state machine (220). To reorder the states, a score is computed and assigned to each of the states (240). Next, the states are sorted (270) according to their computer scores. In some embodiments, to compute the score for each current state based on similar states is added. The sum of the scores in each row of the table is representative of the score for associated current state associated with that row. The states are sorted according to their score and a new transition table is generated in accordance with reordered states (280).



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A. CLASSIFICATION OF SUBJECT MATTER
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USPC: 341/65,106,107
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
East text searched: generati\$3, transition, state, table, calculate, computer, change, update. value, scores

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,475,388 A (Gormish et al.) 12 December 1995 (12.12.1995), Figs. 9-11	1-6

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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