

Abstract

METHOD AND SYSTEM FOR NUMBER COMPARISON DURING STREAM PROCESSING

Embodiments of the invention provide a method and system for comparing a given number
5 and a target number. The method comprises: generating a current index associated with the
given number based on a current digit pair including a first current digit from the given
number and a second current digit from the target number, and a current state information
associated with the given number; looking up the generated current index in a preset state
transition table to identify a next state information, wherein the preset state transition table
10 maintains a plurality of mappings, each mapping is between an index and a next state
information; if the current digit pair includes a last digit of any of the two numbers,
determining a final comparison result based on the next state information; otherwise, taking
on the next state information as the current state information for comparison of a next digit
pair.

15 (Figure 1)