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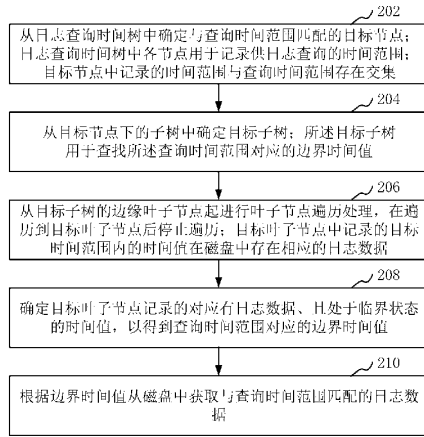
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(54) Title: LOG DATA QUERY METHOD AND APPARATUS, AND DEVICE AND MEDIUM

(54) 发明名称: 日志数据查询方法、装置、设备和介质



202 Determine, from a log query time tree, a target node matching a query time range, wherein each node in the log query time tree is used for recording a log query time range, and a time range recorded in the target node intersects the query time range

204 Determine a target sub-tree from sub-trees under the target node, wherein the target sub-tree is used for searching for a boundary time value corresponding to the query time range

206 Starting from an edge leaf node of the target sub-tree, perform leaf node traversal processing, and stop traversal after a target leaf node is traversed, wherein a time value within a target time range recorded in the target leaf node has corresponding log data in a disk

208 Determine a time value which is recorded in the target leaf node, correspondingly has log data and is in a critical state, so as to obtain the boundary time value corresponding to the query time range

210 According to the boundary time value, acquire, from the disk, log data matching the query time range

图 2

(57) Abstract: The present application relates to a log data query method. The method comprises: determining, from a log query time tree, a target node matching a query time range, wherein each node in the log query time tree records a log query time range, and a time range recorded in the target node intersects the query time range (202); determining a target sub-tree from sub-trees under the target node (204); starting from an edge leaf node of the target sub-tree, performing leaf node traversal processing, and stopping traversal after a target leaf node is traversed, wherein a time value within a target time range recorded in the target leaf node has corresponding log data in a disk (206); determining a time value which is recorded in the target leaf node, correspondingly has log data and is in a critical state, so as to obtain a boundary time value corresponding to the query time range (208); and according to the boundary time value, acquiring, from the disk, log data matching the query time range (210).

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根据细则4.17的声明:
— 关于申请人有权要求在先申请的优先权(细则
4.17(iii))

本国际公布:
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 本申请涉及一种日志数据查询方法。方法包括: 从日志查询时间树中确定与查询时间范围匹配的目标节点; 日志查询时间树中各节点记录日志查询的时间范围; 目标节点记录的时间范围与查询时间范围有交集(202); 从目标节点下的子树中确定目标子树(204); 从目标子树的边缘叶子节点起进行叶子节点遍历处理, 在遍历到目标叶子节点后停止遍历; 目标叶子节点中记录的目标时间范围内的时间值在磁盘中存在相应的日志数据(206); 确定目标叶子节点记录的对应日志数据、且处于临界状态的时间值, 得到查询时间范围对应的边界时间值(208); 根据边界时间值从磁盘中获取与查询时间范围匹配的日志数据(210)。