

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(10) 国际公布号
WO 2023/082921 A1

(43) 国际公布日
2023 年 5 月 19 日 (19.05.2023)

(51) 国际专利分类号:
G06F 9/48 (2006.01)

(21) 国际申请号: PCT/CN2022/124839

(22) 国际申请日: 2022 年 10 月 12 日 (12.10.2022)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202111322490.3 2021 年 11 月 9 日 (09.11.2021) CN

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(54) Title: NETWORK CARD PACKET RECEIVING PROCESSING METHOD AND APPARATUS

(54) 发明名称: 一种网卡收包处理方法及装置

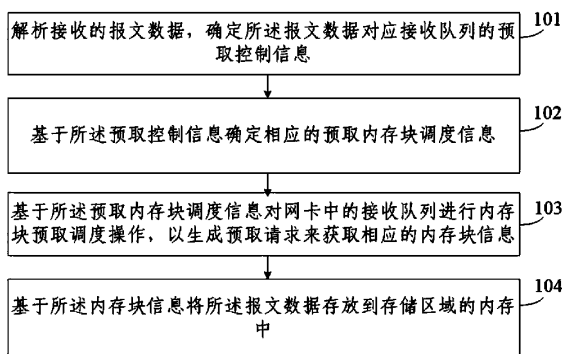


图 1

- 101 Parse received message data, and determine pre-fetching control information of a receiving queue corresponding to the message data
- 102 Determine corresponding pre-fetching memory block scheduling information on the basis of the pre-fetching control information
- 103 Perform a memory block pre-fetching scheduling operation on the receiving queue in a network card on the basis of the pre-fetching memory block scheduling information, so as to generate a pre-fetching request to acquire corresponding memory block information
- 104 Store the message data in a memory of a storage area on the basis of the memory block information

(57) Abstract: Provided in the present disclosure are a network card packet receiving processing method and apparatus. The method comprises: parsing received message data, and determining pre-fetching control information of a receiving queue corresponding to the message data; determining corresponding pre-fetching memory block scheduling information on the basis of the pre-fetching control information; and performing a memory block pre-fetching scheduling operation on the receiving queue in a network card on the basis of the pre-fetching memory block scheduling information, so as to generate a pre-fetching request to acquire corresponding memory

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本国际公布:

— 包括国际检索报告 (条约第21条(3))。

block information. According to the network card packet receiving processing method provided in the present disclosure, corresponding pre-fetching memory block scheduling information is generated by means of receiving pre-fetching control information corresponding to message data, and packet receiving scheduling among a plurality of receiving queues can be realized on the basis of the pre-fetching memory block scheduling information, such that the pre-fetching memory block scheduling efficiency of a network card is improved, thereby improving the performance of the whole network card receiving the message data.

(57) 摘要: 本公开提供一种网卡收包处理方法及装置。该方法包括: 解析接收的报文数据, 确定所述报文数据对应接收队列的预取控制信息; 基于所述预取控制信息确定相应的预取内存块调度信息; 基于所述预取内存块调度信息对网卡中的接收队列进行内存块预取调度操作, 以生成预取请求获取相应的内存块信息。本公开提供的网卡收包处理方法, 通过接收报文数据对应的预取控制信息生成相应的预取内存块调度信息, 并基于所述预取内存块调度信息能够实现多接收队列间的收包调度, 提高了网卡的预取内存块调度效率, 从而提升了整个网卡的接收报文数据的性能。