

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Steven Leslie Pope, et al. Art Unit : 2454
Serial No. : 11/916,973 Examiner : Jeong S. Park
Filed : November 14, 2008 Conf. No. : 1989

Title : RECEPTION ACCORDING TO A DATA TRANSFER PROTOCOL OF DATA
DIRECTED TO ANY OF A PLURALITY OF DESTINATION ENTITIES FOR
DATA EXTRACTION

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Commissioner for Patents
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AMENDMENT IN REPLY TO ACTION OF MARCH 7, 2013

Please amend the above-identified application as follows:

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Withdrawn) A data processing system arranged for receiving over a network, according to a data transfer protocol, data directed to any of a plurality of destination identities, the data processing system comprising:

data storage for storing data received over the network;

a first processing arrangement for performing processing in accordance with the data transfer protocol on received data in the data storage, for making the received data available to respective destination identities; and

a response former arranged for: receiving a message requesting a response indicating the availability of received data to each of a group of destination identities; and forming such a response;

wherein the message former is arranged to, in dependence on receiving the said message:

identify received data that is directed to any destination identity that is both a member of the group and a member of a subset of the plurality of destination identities, and on which processing has not yet been performed;

trigger processing by the first processing arrangement in accordance with the protocol on only the identified data; and subsequently

form a response based at least partly on the result of the triggered processing, wherein the response is formed so as to comprise a positive indication of availability of data for a destination identity of the group if the triggered processing caused data to be made available to the respective destination identity.

2. (Withdrawn) A data processing system according to claim 1 wherein the first processing arrangement is at user level.
3. (Withdrawn) A data processing system according to claim 1 or claim 2 further comprising a second data processing arrangement for performing processing in accordance with the data transfer protocol on received data in the data storage other than the said identified data.
4. (Withdrawn) A data processing system according to claim 3 wherein the second processing arrangement is a part of an operating system of the data processing system.
5. (Withdrawn) A data processing system according to claim 3 or claim 4 further comprising a data structure, associated with the processing of the received data other than the identified data, for storing an indication of: destination identities other than the subset of destination identities; and corresponding state data.
6. (Withdrawn) A data processing system according to claim 5 wherein the state data comprises indications of availability of received data to respective destination identities.
7. (Withdrawn) A data processing system according to claim 6 wherein the indications of availability in the state data are formed based on the result of processing according to the protocol of received data other than data directed to any of the subset of destination identities.
8. (Withdrawn) A data processing system according to any of claims 3 to 7 wherein the second processing arrangement is dedicated to the processing of the received data other than data directed to any of the subset of destination identities.
9. (Withdrawn) A data processing system according to claim 8 wherein the first and second processing arrangements are implemented by means of respective threads

10. (Withdrawn) A data processing system according to claim 8 or claim 9 wherein the dedicated processing is performed as a background processing operation such that other processing operations within the data processing system are not interrupted by the second processing arrangement.

11. (Withdrawn) A data processing system according to any preceding claim wherein the said subset contains destination identities which relate to active network connections.

12. (Withdrawn) A data processing system according to claim 5 or any of claims 6 to 11 as dependent on claim 5 wherein the said response is based additionally on the state data in the data structure.

13. (Withdrawn) A data processing system according to claim 12 wherein the said response is formed so as to comprise a positive indication of availability of data for a destination identity of the group other than a member of the subset if the state data indicates availability of received data to the destination identity.

14. (Withdrawn) A data processing system according to any preceding claim wherein the response is formed so as to comprise a positive indication of availability of data for a destination identity of the group if any processing other than the triggered processing causes data to be made available to the destination identity.

15. (Withdrawn) A data processing system according to claim 5 or any of claims 6 to 14 as dependent on claim 5 wherein the data structure is stored in a cache.

16. (Withdrawn) A data processing system according to claim 5 or any of claims 6 to 15 as dependent on claim 5 wherein the data structure is stored in the operating system.

17. (Withdrawn) A data processing system according to any preceding claim, further arranged to transmit a communication to a process running on the data processing system in the event that

the said response comprises a positive indication of availability for a destination identity associated with the process.

18. (Withdrawn) A data processing system according to any preceding claim wherein each destination identity is associated with a socket.

19. (Withdrawn) A data processing system according to any preceding claim wherein the said making the received data available to respective destination identities comprises passing the data from the data storage to one or more buffers associated with the respective destination identities.

20. (Withdrawn) A data processing system according to any preceding claim wherein the said message is transmitted by means of a user process running on the data processing system.

21. (Withdrawn) A data processing system arranged for transmitting over a network, according to a data transfer protocol, data from any of a plurality of destination identities, the data processing system comprising:

data storage for storing data to be transmitted over the network;

a first processing arrangement for performing processing in accordance with the data transfer protocol on data in the data storage, for making the data available for transmission over the network; and

a response former arranged for: receiving a message requesting a response indicating the availability of data from each of a group of destination identities for transmission over the network; and forming such a response;

wherein the message former is arranged to, in dependence on receiving the said message:

identify data in the data storage that is from any destination identity that is both a member of the group and a member of a subset of the plurality of destination identities, and on which processing has not yet been performed;

trigger processing by the first processing arrangement in accordance with the protocol on only the identified data; and subsequently

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