

Title (en)

DISTRIBUTED VIRTUAL WEB CACHE IMPLEMENTED ENTIRELY IN SOFTWARE

Title (de)

VERTEILTER VIRTUELLER NETZ-CACHE-SPEICHER DER GÄNZLICH IN SOFTWARE IMPLEMENTIERT IST

Title (fr)

ANTEMEMOIRE WEB VIRTUELLE REPARTIE, ENTIEREMENT MISE EN OEUVRE DANS UN LOGICIEL

Publication

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Application

EP 00943024 A 20000621

Priority

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Abstract (en)

[origin: WO0079362A2] A method and system are provided for optimizing the local caching of one or more data components available from a server node. Each of plural nodes connected to a local area network is provided with a locally physically present cache. Each of the caches of at least some of the plurality of nodes are linked together into a single virtual cache. A particular one of the nodes is designated as a repository node for persistently storing a particular data component and for providing a copy of the particular data component to other referencing nodes of the plurality of nodes which lack, but which desire to access, the particular data component. Designation of the particular node as the repository node is unchanged solely by providing a copy of the particular data component to one of the referencing nodes that desires to access the particular data component. The repository function of a node for a particular data component is relatively static. For instance, assume that a first referencing node obtains from the repository node a copy of the particular data component and performs a group of one or more access operations on the copy of the data component. If another referencing node lacks a copy of, but desires to access, the particular data component, a copy of the particular data component is provided from the repository node to the other referencing node. One of the nodes may be designated as a monitor node for the particular data component. The monitor node responds to requests by each referencing node to identify the repository node of the particular data component by providing the identify of the particular node which serves as the repository node for the particular data component.

[origin: WO0079362A2] A method and system are provided for optimizing the local caching(Fig. 2) of one or more data components available from a server node(n2). Each of plural nodes(n4-n44) connected to a LAN is provided with a locally physically present cache(100). Each of the caches of some of the plurality of nodes are linked together into a single virtual cache. One of the nodes is designated as a repository node for persistently storing a data component and for providing a copy of the data component to other referencing nodes, forinstance, if another referencing node lacks a copy of, but desires to access, the data component. One of the nodes may be designated as a monitor node (s50) for the data component. The monitor node responds to requests by each referencing node to identify the repository node of the particular data by providing the identity of the repository node.

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