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United States Patent [19]

Bach et al.

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Apr. 8, 1997

[54]	NETWORK PROCESSOR FOR
	TRANSFORMING A MESSAGE
	TRANSPORTED FROM AN I/O CHANNEL
	TO A NETWORK BY ADDING A MESSAGE
	IDENTIFIER AND THEN CONVERTING THE
	MESSAGE

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[73] Assignee: International Business Machines Corporation, Armonk, N.Y.

[21] Appl. No.: 531,579

[22] Filed: Sep. 21, 1995

Related U.S. Application Data

Continuation	of	Ser.	No.	966,821,	Dec.	31,	1992,	aban-
doned.								

[51]	Int. Cl. ⁶		G06F 13/00
rcos.	TTO OF	20 5 (200 04	205/200 1/

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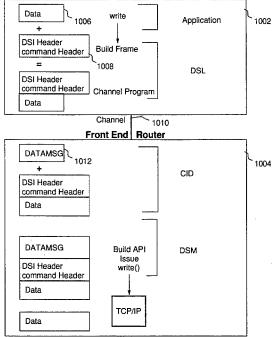
Primary Examiner—Thomas C. Lee Assistant Examiner—Duo Chen Attorney, Agent, or Firm—Gerald R. Woods

[57] ABSTRACT

A system and method for distributing application-to-application network communications protocol processing. Host computers implement distributed API processing across a high speed I/O channel increasing throughput. The application API conforms to standard protocols but protocol processing is distributed using a cross-channel distributed sockets API at the session layer. This API allows multiplexing of data from one or more hosts to one or more front end routers managing network communications. Multiplexing increases network performance through parallel processing and advantageously employs host high speed I/O functions. Front end routers perform lower level protocol tasks necessary to exchange data over the communications network.

7 Claims, 16 Drawing Sheets

System 370/390





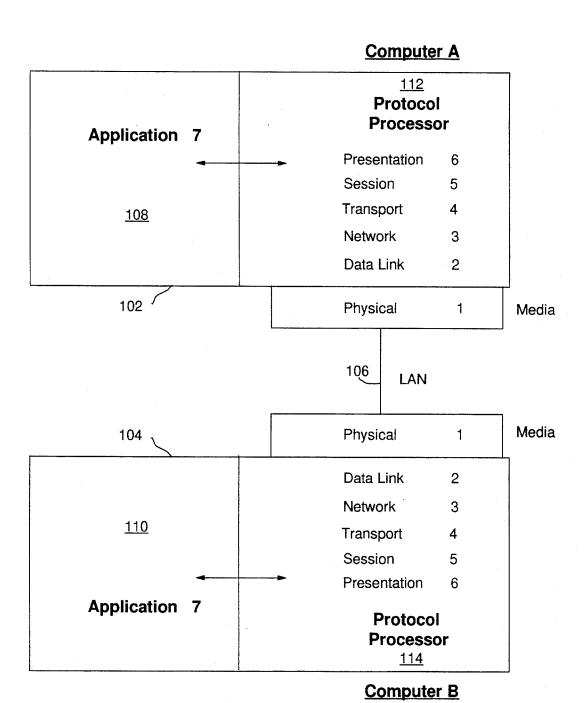


FIG. 1

System 370/390

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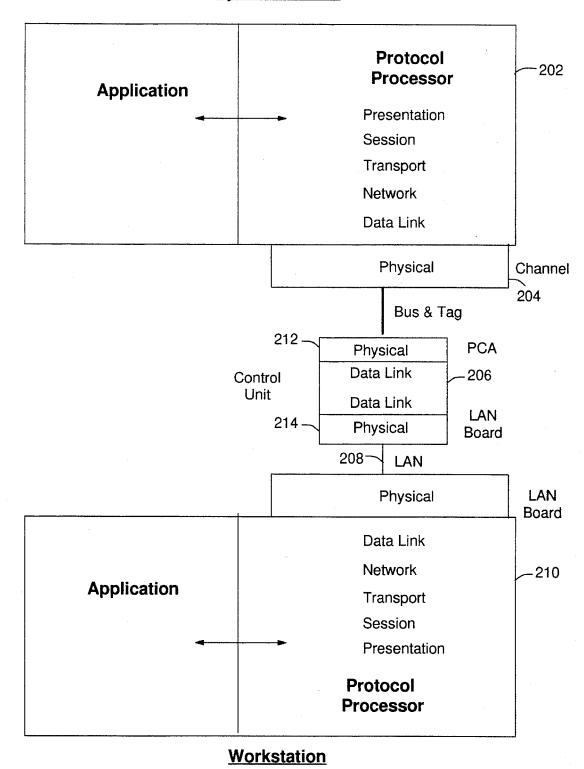
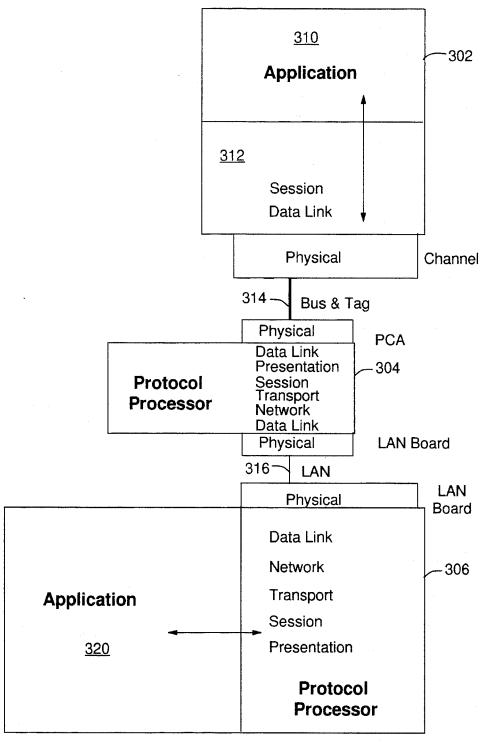


FIG. 2 Prior Art

System 370/390



Computer B

FIG. 3



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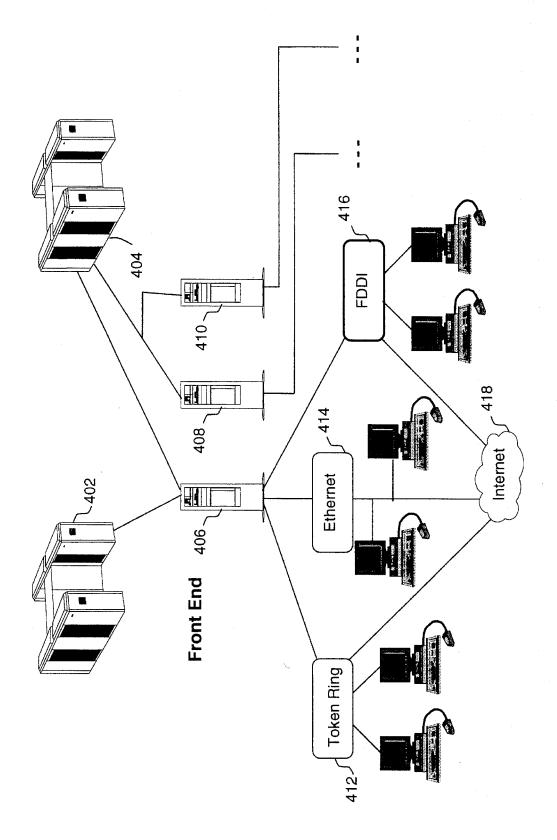


FIG. 4

DOCKET

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