

METHOD AND SYSTEM FOR SPECULATIVELY SOURCING CACHE MEMORY
DATA WITHIN A DATA-PROCESSING SYSTEM

ABSTRACT

A method and system (10) for speculatively sourcing cache memory data from a processing unit (11a - 11n) to an intelligent I/O device (16a - 16n) within a data-processing system (10) is disclosed. In accordance with the method and system of the present invention, a data-processing system (10) includes at least one processing unit (11a - 11n), each having at least one cache memory and at least one intelligent I/O device (16a - 16n). In response to a request for data by an intelligent I/O device (16a - 16n) within the data-processing system (10), an intervention response is issued from a processing unit (11a - 11n) within the data-processing system (10) having the requested data. The requested data is then read from a cache memory (13a - 13n) within the processing unit before a combined response from all processing units within the data-processing system returns to the processing unit.

Fig. 1