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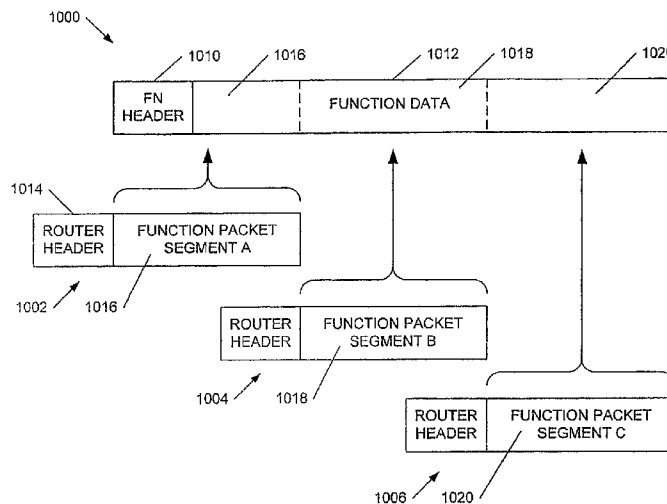
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(54) Title: METHODS AND APPARATUS FOR RECONFIGURING PACKETS TO HAVE VARYING SIZES AND LATENCIES



(57) Abstract: In various embodiments, a processing element (PE) includes a data router adaptor (DRA) and one or more elements that produce function packets. When the DRA receives a function packet, it generates a set of associated router packets. Each of the associated router packets includes a segment of the function packet, and has a router packet data length that is less than or equal to the function packet length. In one embodiment, the router packet data lengths are included in a table, and can be re-configured to alter system performance parameters (e.g., bandwidth usage and/or latency). The DRA sends the set of associated router packets to a router for delivery through a packet-based network. A destination DRA receives the set of associated router packets, and generates a reassembled function packet from the set of associated router packets. The destination DRA sends the re-assembled function packet to a destination element.

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