

Title (en)

PACKET ASSEMBLY HARDWARE FOR DATA COMMUNICATION SWITCH

Title (de)

HARDWARE FÜR PAKETZUSAMMENSTELLUNG IN EINER DATENKOMMUNIKATIONSVERMITTLUNGSSTELLE

Title (fr)

MATERIEL D'ASSEMBLAGE DE PAQUETS POUR COMMUTATEUR DE COMMUNICATIONS DE DONNEES

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Application

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Abstract (en)

[origin: WO9966678A1] An "on the fly" packet assembly for a data communication switching engine assembles headers and stripped packets which are separately-sourced in multi-bit bursts while correcting any misalignment created by such "chunky" transfer. When an inbound header and corresponding outbound header initially have a half-width divergence (i.e., one ends on a full-width and the other ends on a half-width), an alignment unit realigns the stripped packet by a half-width to align the last half-width of the outbound header and the first half-width of the stripped packet. Also, when an outbound header ends on a half-width, a merger multiplexor combines the last half-width of the outbound header and the first half-width of the stripped packet to bridge the gap which would otherwise remain between the outbound header and the stripped packet. The serially-implemented alignment and merger operations format the outbound header and stripped packet into an encapsulated packet which may be readily transferred in a contiguous manner on an output. An update unit may be implemented in the packet assembly to perform "on the fly" updates of selective fields in the outbound header and stripped packet.

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