

CONCURRENT SEGMENTATION USING VECTOR PROCESSING

ABSTRACT

A system for segmenting an input data stream, comprising a processor adapted to split an input data stream to a plurality of data sub-streams such that each of the plurality of data sub-streams has an overlapping portion with a consecutive data sub-stream of the plurality of data sub-streams, create concurrently a plurality of segmented data sub-streams by concurrently segmenting the plurality of data sub-streams each in one of a plurality of processing pipelines of the processor and join the plurality of segmented data sub-streams to create a segmented data stream by synchronizing a sequencing of each of the plurality of segmented data sub-streams according to one or more overlapping segments in the overlapping portion of each two consecutive data sub-streams of the plurality of data sub-streams.