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reconstruct the data structure, the multi-level representation including data clusters, comprising:

a filtering module for filtering the multi-level representation by lapped-cluster processing,

a controller for controlling the flow of data through said filter module, said controller being adapted to stop the processing at the end of one region and to store the data relating to the data dependencies included in adjacent non-reconstructed regions.

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39. The apparatus of claim **38**, said filtering module is adapted to traverse the data of one data layer in one level before traversing the data layer of the next level.

40. The apparatus of claim **38**, wherein the data structure has a plurality of dimensions and said filtering module is adapted to traverse the data of one data layer in one dimension before traversing the data layer in the next dimension.

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