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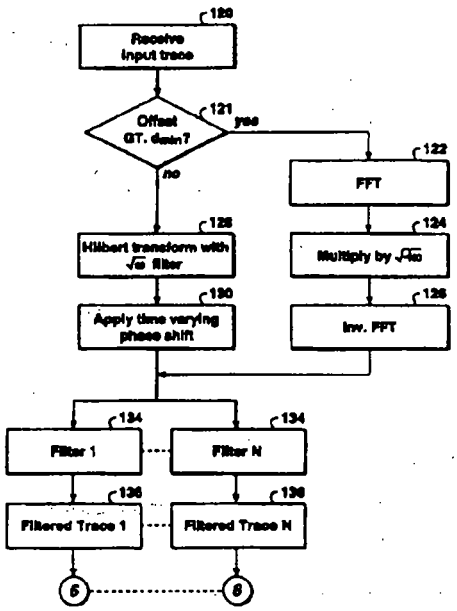
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(54) Title: METHOD OF DIP MOVEOUT ANALYSIS ON A MASSIVELY PARALLEL COMPUTER

(57) Abstract

The invention relates to a method of processing seismic data (102, 104) on parallel processors (106, 108, 110), preferably on a massively parallel processor (MPP) (100). The input to the process is seismic data from one or more of a number of seismic lines (2). The end product of the invention is a DMO corrected, zero-offset seismic image of the subsurface. By repeating the method on different input offsets, the variation in reflection strength of a reflector as a function of the angle of incidence can be examined. The method includes a two stage parallelization. First, a parallelization over the incoming traces generates a suite of DMO-corrected partial images for each point on each incoming trace. Secondly, a parallelization over output locations accumulates and combines the partial images, and produces output traces.



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