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Parallel Digital Signal Processing An Parallel multidimensional digital signal processing (mD-DSP) is defined as the application of parallel programming and multiprocessing to digital signal processing techniques to process digital signals that have more than a single dimension. The use of mD-DSP is fundamental to many application areas such as digital image and

video processing, medical imaging, geophysical signal analysis, sonar

...Parallel multidimensional digital signal processing ...Simply put, parallel processing uses multiple processors working together to solve a single task. Processors can either solve different portions of the same problem simultaneously or work on the same portion of a problem concurrently. This paper discusses digital signal parallel processing as well as the reasons why DSP and parallel PARALLEL DIGITAL SIGNAL PROCESSING: AN EMERGING MARKET In digital signal processing (DSP),

parallel processing is a technique duplicating function units to operate different tasks (signals) simultaneously. Accordingly, we can perform the same processing for different signals on the corresponding duplicated function units. Further, due to the features of parallel processing, the parallel DSP design often contains multiple outputs, resulting in ...Parallel processing (DSP implementation) - Wikipediadigital signal processing [30, 36, 37, 43]. Thus, we shall generally describe parallel algorithms as though they are to be implemented on systolic arrays – the reader should be able to translate to other parallel computer architectures. 3.

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Due to the physical limitations of nowadays silicon technologies, parallel processing systems are the way to solve this problem of increasing performance demand. Parallel processing systems for embedded signal processing differ significantly in their architecture in respect to the used processor architecture and their

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