DSP Applications Using C and the TMS320C6x DSK

By Rulph Chassaing

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- The TMS320C6x is Texas Instrument's next generation DSP found in over 60 percent of wireless devices from leading manufacturers such as Ericsson, Nokia, Sony, and Handspring
- Author has many years experience working with the TI line of TMS DSPs and his books are based on courses and seminars given at TI sponsored meetings
- All programs listed in the text will be available on the Wiley FTP site
- In addition to its wireless applications, the TMS DSP is tailored to enable a new generation of Internet media entertainment appliances

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DSP Applications Using C and the TMS320C6x DSK By Rulph Chassaing Bibliography

- Sales Rank: #2525073 in Books
- Published on: 2002-02-11
- Original language: English
- Number of items: 1
- Dimensions: 10.20" h x .91" w x 7.30" l, 1.10 pounds
- Binding: Hardcover
- 360 pages

Editorial Review

Review
"...intended...for senior undergraduate and first-year graduate students in electrical and computer engineering and as a tutorial for the practicing engineer." (*IEEE Signal Processing Magazine*, Vol. 19, No. 4, July 2002)

From the Back Cover
The up-to-date, comprehensive volume on digital methods for waveform generation, digital filters, and digital signal processing tools and techniques

DSP Applications Using C and the TMS320C6x DSK provides a hands-on learning approach to digital signal processing (DSP) that uses real-time implementation of experiments and projects. Chapters begin with a theoretical discussion, followed by examples that present the necessary background to perform the concluding experiments. A total of seventy-six solved-programming examples are included, most of which are done in C/C++ (C) code with a few in assembly and linear assembly code.

The tools used in this book, the Code Composer Studio (CCS) and the TMS320C6711 DSP Starter Kit (DSK), are introduced in the first chapter. Examples are given here that illustrate the capabilities of the CCS for debugging as well as plotting in time and frequency domains. The CCS and DSK are used throughout the book while working with covered material such as:
* Input and output (I/O) with the codec on the DSK board and alternative I/O with a stereo audio codec that interfaces with the DSK
* The architecture and instructions available for the TMS320C6x processor
* The z-transform and finite impulse response (FIR) filters and the effect of window functions on these filters
* Infinite impulse response (IIR) filters
* The fast Fourier transform (FFT)
* The adaptive filter
* Techniques for code optimization

Complete with ample DSP applications and projects, a related Web site, and a CD-ROM that contains all the programs discussed in the book, DSP Applications Using C and the TMS320C6x DSK is invaluable to senior and graduate students in electrical and computer engineering, as well as professional engineers and anyone conducting in-house tutorials or seminars on DSP.

About the Author
RULPH CHASSAING is a visiting lecturer at the University of Massachusetts-Dartmouth. He is the author of three other books on real-time DSP: Digital Signal Processing with C and the TMS320C30, Digital Signal Processing-Laboratory Experiments Using C and the TMS320C31 DSK, and Digital Signal Processing with the TMS320C25, all published by Wiley.

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