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This tutorial assumes that you have Code Composer Studio, which includes the TMS320C6000 code generation tools along with the APIs and plug-ins for both DSP/BIOS and RTDX. This manual also assumes that you have installed a target board in your PC containing the DSP device. If you only have Code Composer Studio Simulator and the code generation

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#### **Guide**

The sample code used in this tutorial is included on both the code generation tools and Code Composer Studio CD-ROMs. When you install the code generation tools, the sample code is installed in `c:\ti\c6000\exam-ples\cgtools\prog_gd\tutorial`. Use the code in that directory to go through the examples in the tutorial. The examples



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describes ways to optimize C and assembly code for the TMS320C6000 DSPs and includes application program examples.

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tools used to develop  
and debug embedded  
applications. It includes  
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compiler, source code  
editor, project build  
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4 Code Composer Studio Debug Tools Reviews the available debug tools and the device generations to which they apply. 5

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Optimization Tools

Provides information  
on profiling code and  
the 'C6000 PBC. 6

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Real Time Components

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(A similar tutorial is in the TMS320C6000

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Figure 1. Code Composer Studio's optimization tutorial recommends a code development flow consisting of four phases. The first three phases focus on utilizing the optimization abilities of the 'C6000 compiler to achieve high code performance while maintaining the code in



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TMS320 is a blanket name for a series of digital signal processors (DSPs) from Texas Instruments. It was introduced on April

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8, 1983 through the TMS32010 processor, which was then the fastest DSP on the market. The processor is available in many different variants, some with fixed-point arithmetic and some with floating point arithmetic.

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Double click on the

CCStudio icon on your

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Code Composer Studio

menu, select Help ->

Tutorial -> Code

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