

C6Flo Graphical Software Development Tool



Overview

Prototyping code is just one of the challenges facing digital signal processing developers, especially those on a tight budget or schedule. For developers of TI's TMS320C6000™ digital signal processors (DSPs), the free C6Flo graphical software development tool simplifies and accelerates the development process by allowing developers to generate prototype software on the DSP without learning new programming languages or specific DSP architecture. Now developers with any level of knowledge can leverage the computational power of TI's DSPs, enabling quick and easy prototyping for various end applications, including industrial imaging, industrial monitoring, test and measurement, music effects and medical imaging.

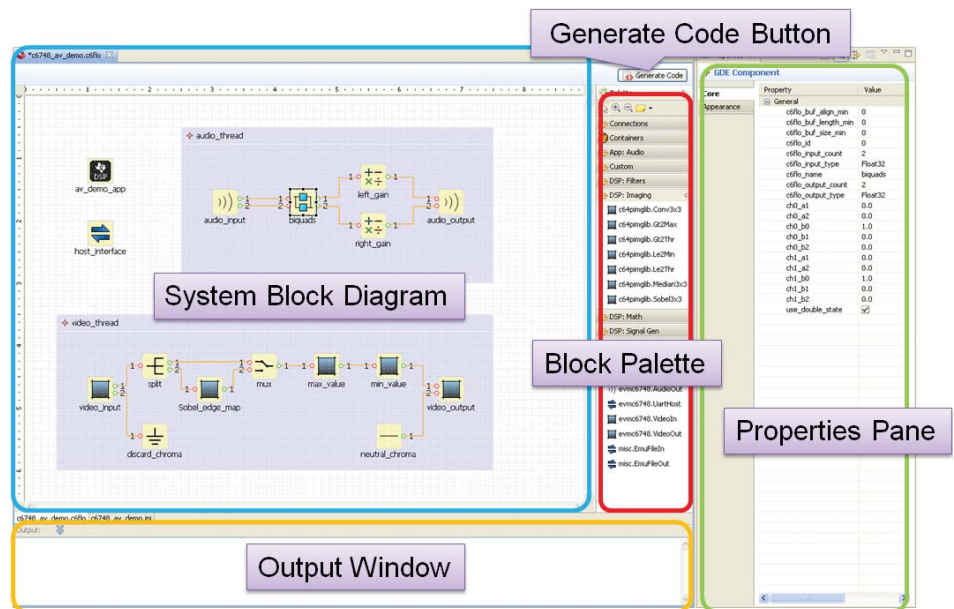
Key features and benefits:

- Drag-and-drop functionality enables developers to connect blocks with peripherals on the DSP and optimize processing
- Produces C6Flo system signal flow block diagram that can be used to scale up and down the product portfolio
- Generates clean code that is easy to understand, modify and expand during future application development
- Allows simple, rapid prototyping without expertise in DSP code, architecture or drivers
- Speeds time to market by reducing prototyping, debugging and optimization time
- Integrates directly with the latest version of Code Composer Studio™ IDE for fast, single-tool development

Technical details

The C6Flo graphical software development tool makes code generation and prototyping of TI DSPs fast and simple with unique technical features, including:

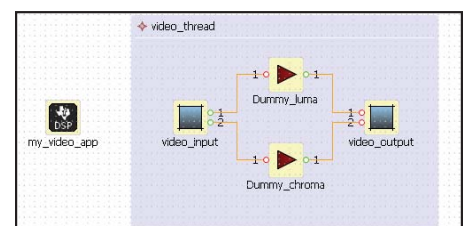
- Compatible with TI's C6000™ DSP devices, such as the TMS320C674x processors,



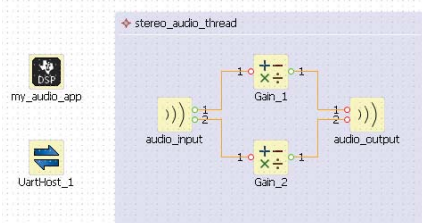
▲ Screen shot of C6Flo application environment.

- as well as DSP-only DaVinci™ video processors, including TMS320DM643x and TMS320DM648 processors
- Generated applications are written in plain C and don't depend on other library or SDK installations
- Generated applications use DSP/BIOS™ kernel to enable sophisticated multi-threaded designs
- Advanced users can modify existing blocks or create new blocks to expand the tool

- Built-in help contents provide quick information for system design and troubleshooting



▲ System using the dummy block for custom video processing.



▲ A simple audio system in the graphical domain.

Community support

C6Flo is supported by TI's online community. Complete collateral, Code Composer Studio™ IDE drivers, user guides and all required documentation for the DSP is available today. Various examples in audio/musical special effect, digital filter design and many others will also be available in the community.

www.ti.com/c6flo-pbcom

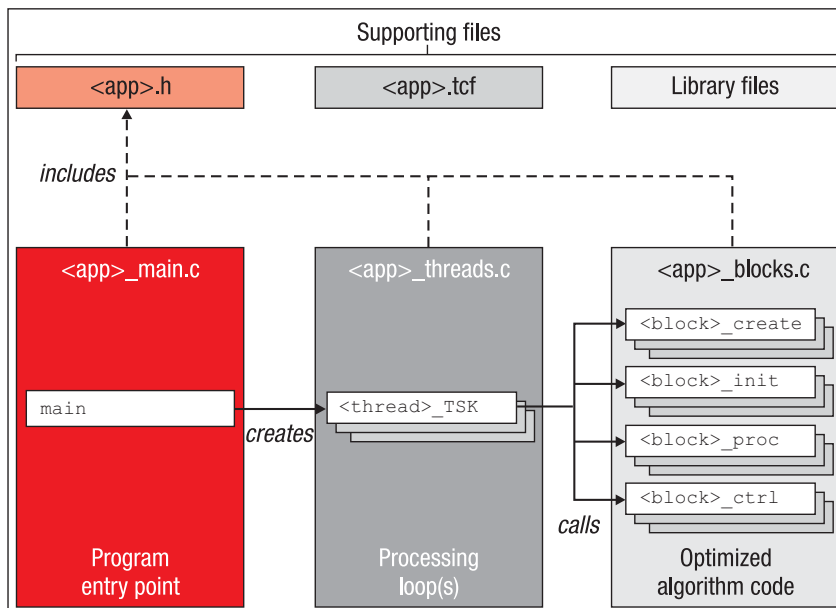
Get started today

This free feature-rich graphical software development tool, C6Flo, is available today as a

free download. To download your version today, please visit www.ti.com/c6flo-pbtf

The C6Flo software development tool is supported by TI's extensive Developer Network, user guides, videos and online communities.

With the C6Flo design tool, TI continues to bring solutions to market to help make designing with DSP easier, help you get to market faster, and reduce your overall development costs.



▲ Application source structure.

TI Worldwide Technical Support

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