VAB™

DSP
TEXAS INSTRUMENTS

Advanced Technology for Rapid DSP Development using eXpressDSP™ Technology from TI!

with direct support for TMS320C24x™, TMS320C3x™, TMS320C54x™, TMS320C62x™, and TMS320C67x™ DSPs

Next Generation Component-based Graphical Compiler for Texas Instruments' DSPs

The Visual Application Builder (VAB) can be thought of as a "Graphical DSP Compiler", and allows you to create a DSP Algorithm from a graphical design, or block diagram approach. Using component-based functions your algorithm is efficiently <u>compiled into DSP Object Code directly</u> within the environment. Working along with eXpressDSP technology you will be able to dramatically reduce your development time while increasing the maintainability of your DSP projects!
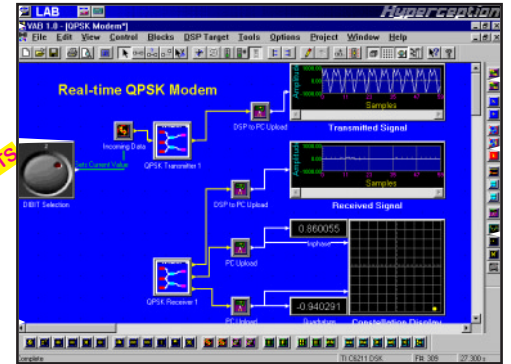
VAB was created by leveraging over a decade of experience in DSP Development Software for the PC. Take a closer look at all the advantages a graphical component-based DSP design affords you.

Concerned about schedule?

Worried about expertise?

Want a tool to make DSP <u>fun</u>?

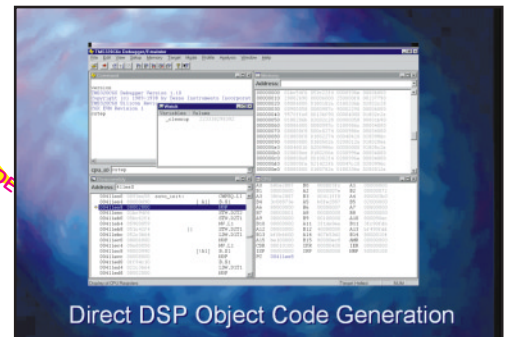## Get the graphical design edge with VAB!
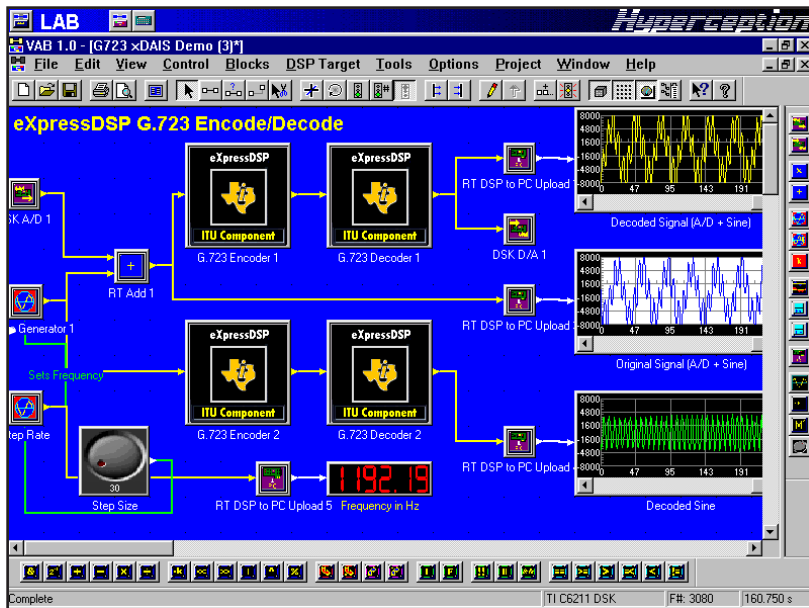
DSP COMPONENTS

New components may be created using the eXpressDSP Component Wizard tool and Code Composer Studio™ (CCS) integrated development environment

DSP OBJECT CODE

Design your algorithm graphically using eXpressDSP based software components; you can make your own blocks or link in standard libraries and object code

Direct DSP Object Code Generation

Produces DSP Object Code as if it came from a Compiler/Linker - ready to use with CCS, etc.

For more detailed information, please contact:

Hyperception, Inc.
9550 Skillman LB 125 * Dallas, TX 75243
Voice: (214) 343-8525   Fax: (214) 343-2457
E-Mail: info@hyperception.com

Hyperception

www.hyperception.com   *The Leader in DSP*

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Graphical Code Generation for TI DSP's

VAB uses a methodology of developing DSP algorithms and systems graphically by simply connecting functional components together with a mouse. A user only needs to choose the desired functions, place them onto a worksheet, select their parameters interactively, and describe their data flow using line connections made with a mouse. This method of design is quite similar to drawing a 'block diagram' of the system being designed. A visual design is a more natural design methodology, and is the perfect paradigm of the old saying "A picture is worth a thousand words".

This new technology is based on an open software architecture and works synergistically with standard TI C compilers and assemblers; users may create their own unique block functions, object files, or library files and use them with VAB. Since VAB supports many TI DSPs including the TMS320C24x™, TMS320C3x™, TMS320C54x™, TMS320C62x™, and TMS320C67x™ DSPs, moving designs from one processor platform to another is very easy.

Just as a C compiler turns a textual language (i.e., C) into DSP object code, VAB turns a graphical language, or block diagram **directly** into DSP object code. With this powerful tool users will write much or all of their algorithm, or software, graphically as opposed to textually, like C or assembly. The savings in design/development time as well as the advantages of maintainability and self-documenting nature of a graphical design are considerable. Whether a beginning novice or a DSP expert, designing DSP applications has never been easier!

Advantages of using VAB

- *Speeds Project Development*
- *Eases DSP Learning Curve*
- *Includes eXpressDSP Component Wizard*
- *Improved Maintainability through Modular and Self-Documenting Design*
- *Allows Convenient Migration across DSP Platforms*
- *Supports True Component-based Design including eXpressDSP based components*
- *Ability to work along with standard TI toolsets, including CCS, C Compilers and Assemblers*
- *Reusability of Software Components*
- *Allows DSPs to be used in new products and market areas that were traditionally non-DSP*

Ordering Information

PART NUMBER:
HSWN1060 - VAB Standard Edition for C6000™ DSP
HSWN1050 - VAB Standard Edition for C5000™ DSP
HSWN1020 - VAB Standard Edition for C2000™ DSP

System Requirements

PC running Windows 95/98/NT with a minimum 16 MB RAM, 256 color Graphics Card, 100 MHz Pentium Class Processor or better suggested.

Interested in DSP?

Add yourself to our DSP Newsletter or our mailing list. Simply contact Hyperception at:

Voice: (214) 343-8525
Fax: (214) 343-2457

or e-mail us at:

info@hyperception.com

Include your contact details (e-mail or postal mail) and we'll be happy to send you DSP-related information!

If you would like e-mail information only, send any e-mail message to:

subscribe@hyperception.com