



Application Note: Code Composer Support Disks

DATE: April 17, 1997
TO: All Code Composer Users
FROM: Technical Staff
RE: Code Composer Support Disk
CC:

Innovative Integration has released a new support software disk for use with the Go DSP Code Composer JTAG development environment. This software supplement to the Code Composer installation provides board-specific support for Innovative Integration's DSP processor cards under the Code Composer software package.

Installation

Install Code Composer as described in the Go DSP manuals, directly from the original disks. Select the relevant Innovative Integration Third Party driver for your system ('C3x, 'C4x, or 'C5x) using the Code Composer Setup program. Once Code Composer is installed and set up, insert the Code Composer Support Disk provided by Innovative integration into your 3 1/2" floppy drive and type

A:\INSTALL (or **B:\INSTALL**, depending on your floppy's designation)

The install program will start, and install the board specific support files into the user-designated Code Composer installation directory (default is C:\COMPOSER). The install program will also add the installation directory name into the DOS path specification. Once the installation has completed, exit Windows and reboot your system.

Features

The Code Composer Support Disk contains two board specific files which aid in initialization of Innovative Integration target DSP cards.

1. `INIT?X.GEL` - a initialization GEL script for Code Composer which is automatically run on startup of Code Composer. The script sets the processor bus control and interrupt registers to reasonable default values for the target board being debugged. The actual name is dependent on the target processor family (`INIT3X.GEL`, `INIT4X.GEL`, or `INIT5X.GEL`). The `INIT?X.GEL` script also installs a new "UserFunctions" menu in the Code Composer window which provides the user with easy access to the processor initialization GEL script. Simply selecting the IIReset menu entry under UserFunctions will open the IIReset dialog box. Clicking on the Execute button causes the initialization script to run. The user should ALWAYS use this processor reset and initialization function rather than the standard Code Composer CPU Reset function, as the IIReset function will not only perform a CPU Reset but initialize the critical CPU registers and bus control features.
2. `CARD.COM` - a target-specific DOS executable which serves to take the target board out of hardware reset by performing appropriate bus or serial port commands to the target hardware.

Note: The `CARD.COM` utility must be executed (from DOS or a DOS box) prior to beginning your Code Composer debugging session. This is critical, since proper emulation is impossible until the target board is brought out of hardware reset.

The `INIT?X.GEL` files for the C3x and C4x processors automatically invoke `CARD.COM` from within the script using a GEL system call, saving you the bother of invoking the utility prior to beginning the debugging session. However, Code Composer for the C5x is not capable of executing the `CARD.COM` file from within the startup script. For this reason, you must manually execute the `CARD.COM` file from a DOS box PRIOR to invoking the C5x version of Code Composer.