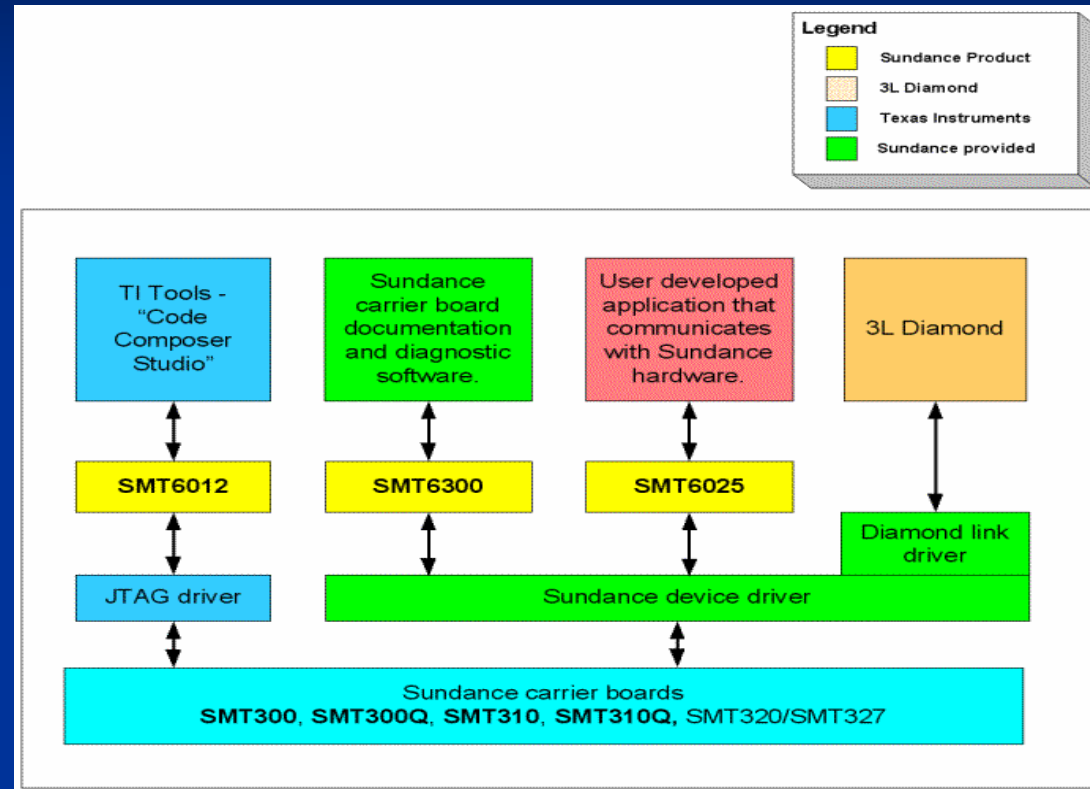


Sundance

Multiprocessor Technology Ltd



SOFTWARE UTILITY TOOLS

High-tech DSP solutions. Giving you the freedom to design

Sundance Wizard

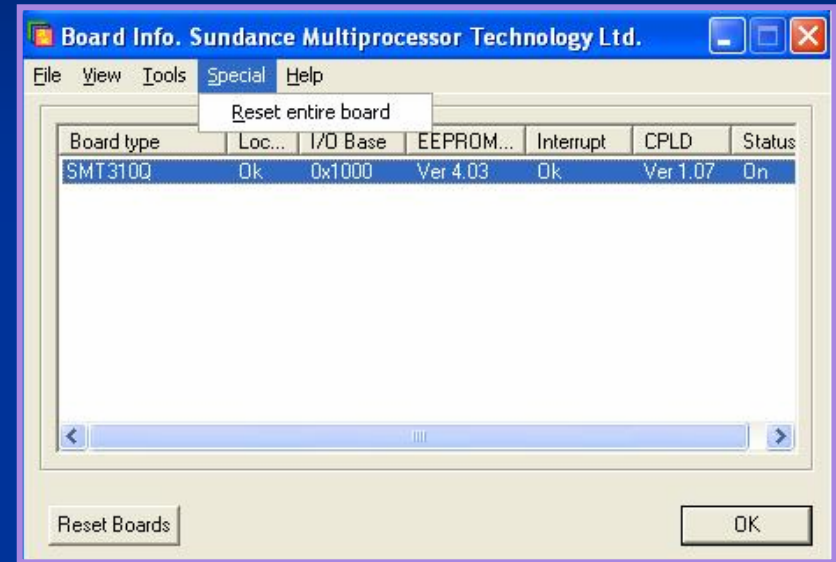
- This provides help information
- This installs software utility tools
- This automates for hardware and software updates
- This detects and configures the hardware system
- This sets-up Code Composer Studio



Basic software drivers and Board Info

(SMT6300)

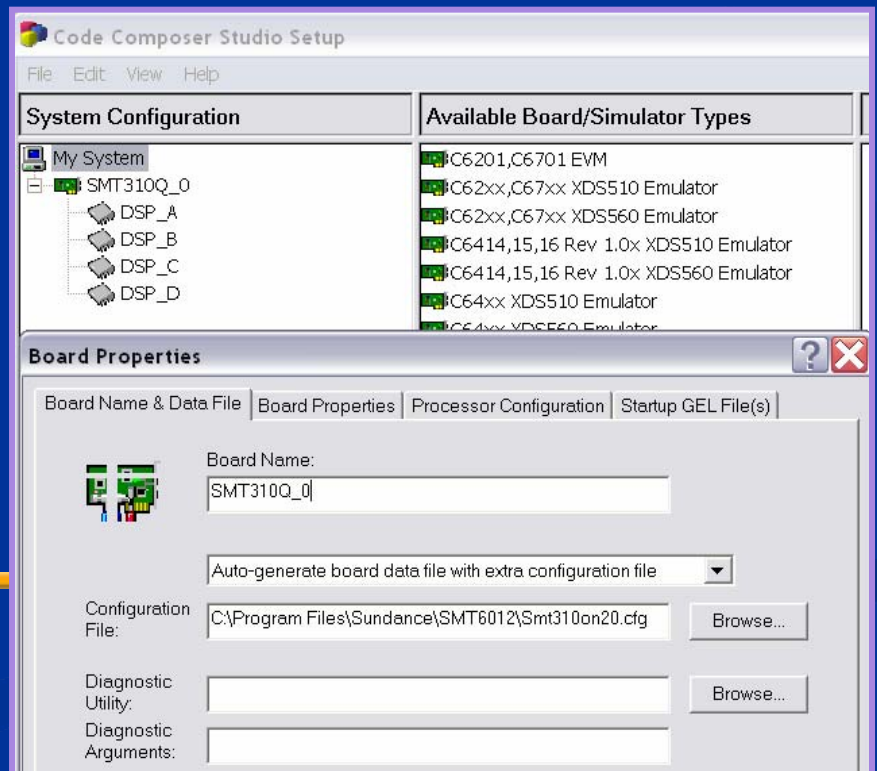
- Device drivers for the carrier boards
- This provides diagnostic utility tools
 - PCI I/O information
 - Software comport switches
 - TIM and JTAG resets
 - Confidence test
 - Record of the drivers and software installed



Drivers for Code Composer Studio

(SMT6012)

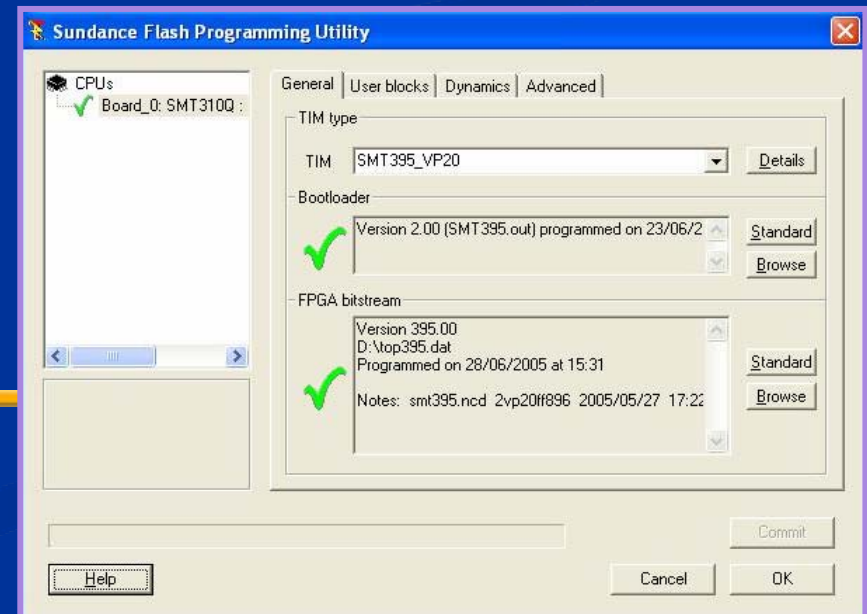
- This installs drivers for Code Composer Studio
- This allows JTAG debugging
 - On-board
 - Off-board
- This provides a help file



Flash utility

(SMT6001)

- This manages the Flash ROM
- This uses Code Composer Studio
 - This analyzes the contents of the Flash
 - This programs data into the Flash
- This erases the Flash memory
- This provides a help file



Support package for DSP

(SMT6400)

- Examples illustrating the use of processor-TIM resources
 - DSP applications
 - Host/DSP applications
- Module support library
 - ANSI C functions for Code Composer Studio
- Help file
 - Communications resources
 - Registers

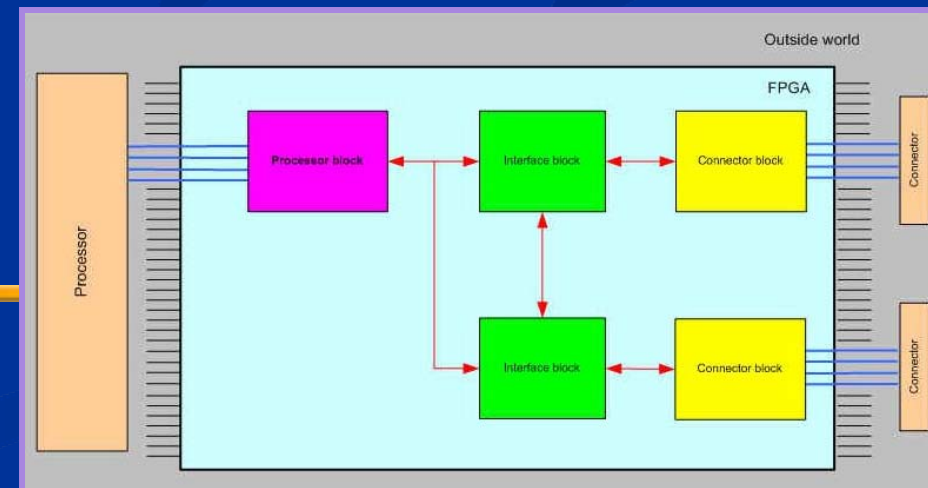
```
/**
** Write a word to the comport number cpno.
** The function polls the status of the output
** FIFO to determine when there is space to
** write another word to the comport.
**/
void cpwrite(unsigned int cpno, unsigned int value)
{
    volatile unsigned int *cpcsr = CPN_CSR(cpno); /* comport control and status register */
    volatile unsigned int *cpdat = CPN_DAT(cpno); /* comport data register */
    while ((*cpcsr) & CP_CSR_OFF) {} /* wait for space to write a word */
    *cpdat = value; /* write to the data register */
}

/**
** Read a word from the comport number cpno
** The function polls the state of the input
** FIFO to determine when there is a word
** available to read.
**/
unsigned int cpread(unsigned int cpno)
{
    volatile unsigned int *cpcsr = CPN_CSR(cpno); /* comport control and status register */
    volatile unsigned int *cpdat = CPN_DAT(cpno); /* comport data register */
    while ((*cpcsr) & CP_CSR_IFE) {} /* wait until there is a word to read */
    return *cpdat; /* read the comport data register */
}
```

Support package for FPGA

(SMT6500)

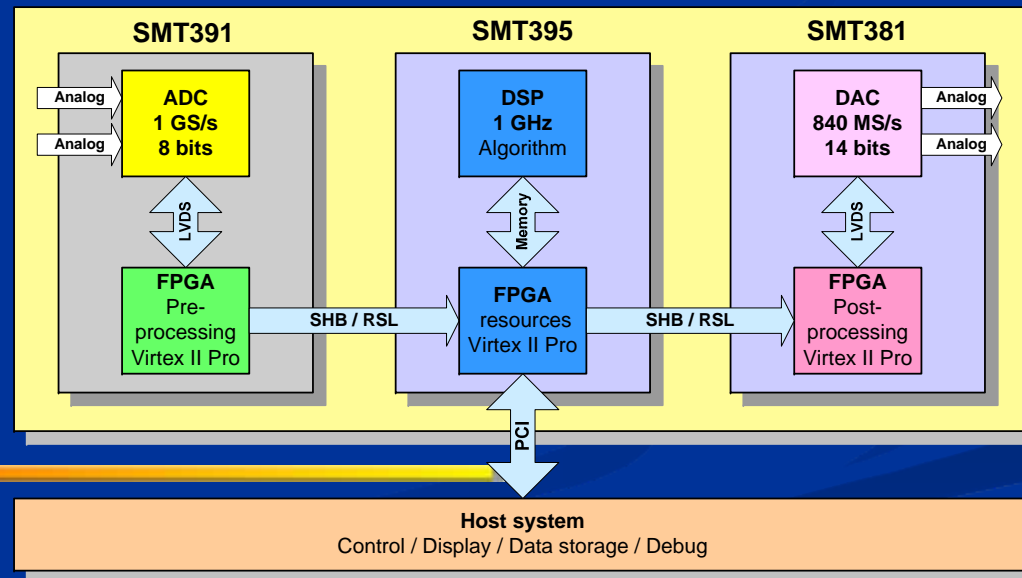
- Examples illustrating the design of the firmware
- Firmware model (design flow description)
- Software tools
 - Bitstream download utility (Host interface)
 - Library of ANSI C functions
- Help file
 - Communication interfaces
 - FPGA configuration



Support package for DAQ

(SMT6600)

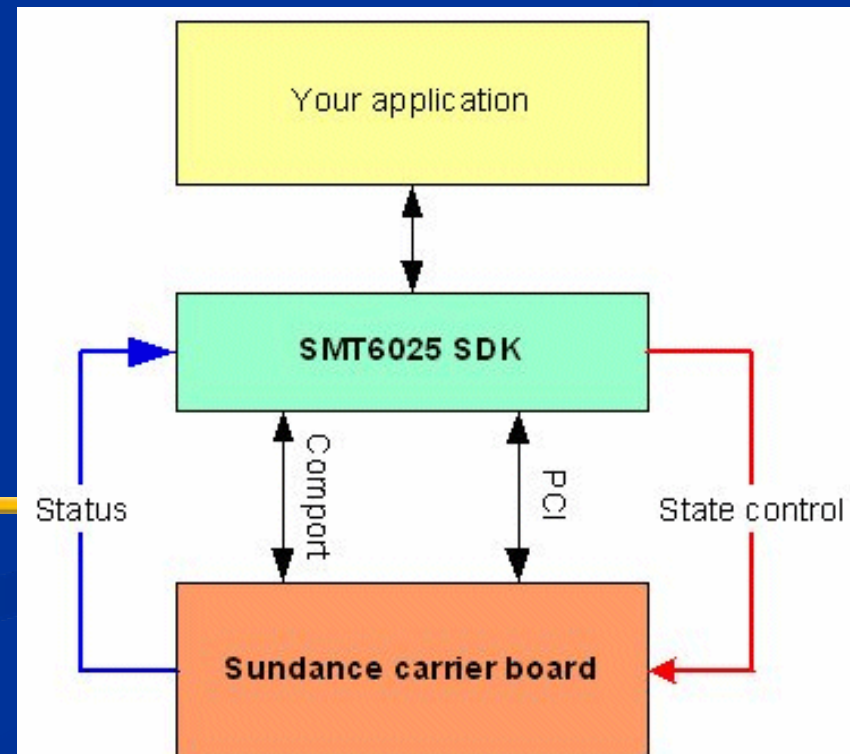
- Examples illustrating the typical systems
 - 3L Diamond application
- Data analysis tools
 - MATLAB application
- Help information
 - Systems user manuals
 - Application notes



Software Development Kit (Win/Linux)

(SMT6025/SMT6035)

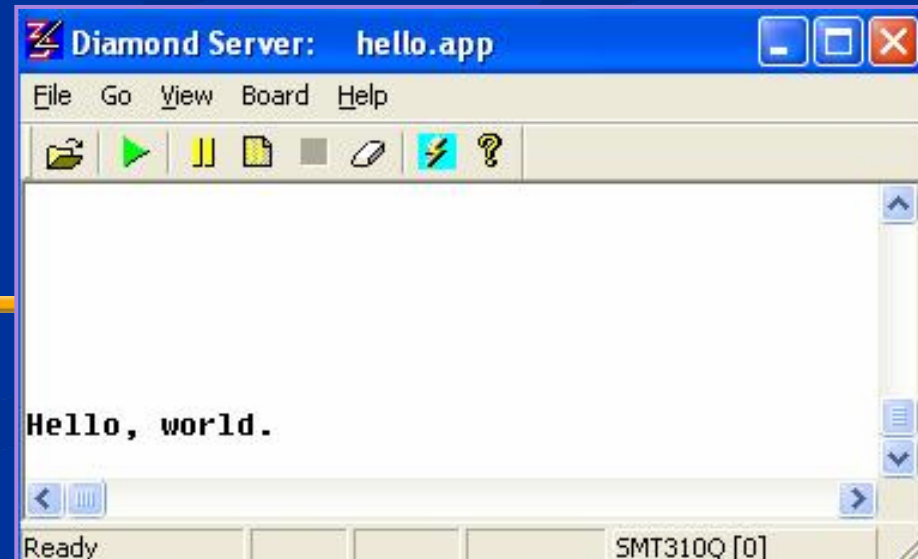
- Carrier board support code
 - Control from the Host
 - Transfer data between the carrier board and the HOST
- C++ interface
- Host side support library
- Help file



Diamond RTOS

(3L)

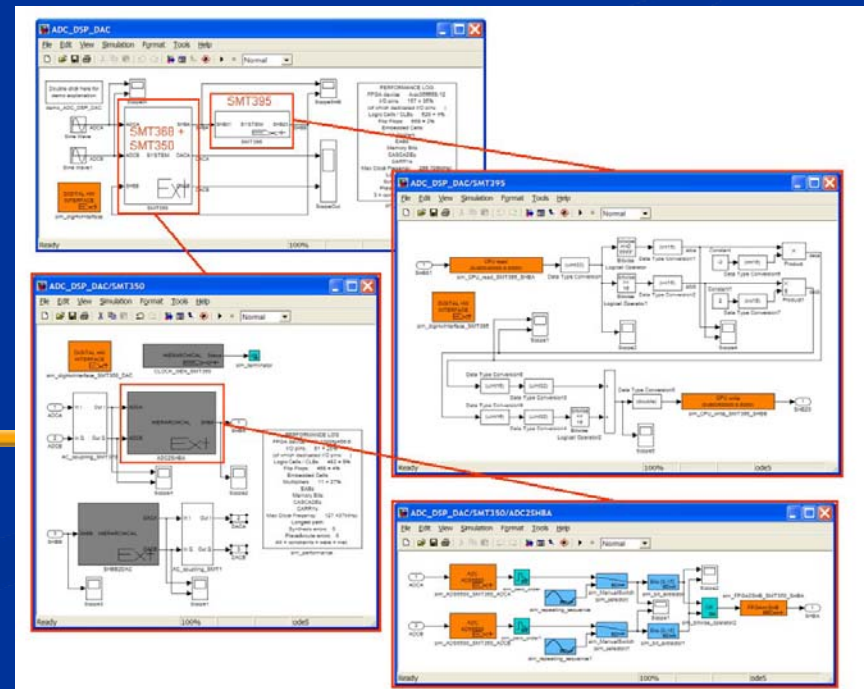
- Operating system for multiprocessor DSP systems
- Powerful API:
 - Multi-tasking, multi-treading, link and Host communications...
- ANSI C library
- Host server program for I/O and control
- Utility to build applications



Simulink toolbox to C & VHDL

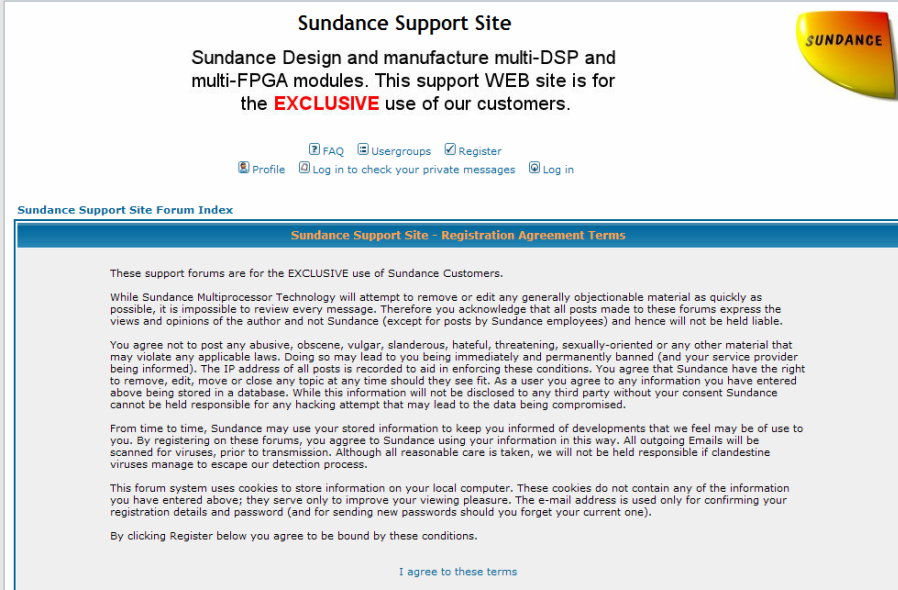
(SMT6040)

- Generates both C code for DSPs and VHDL code for FPGAs
- Fully compatible with Simulink® libraries
- Simulink-like block library
- Product Presentation



Support Forum

- Online support forum
 - Private forum area for each Client
 - FAQ database
- Dedicated team of support engineers
 - Work closely with the design engineers
- Information sharing



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Sundance Website

- Product database
 - Presents the range of products
 - Software overview
- News room (press releases, news letters, papers, adverts)
- User guides, technical application notes
- Other information

The screenshot displays the Sundance website homepage with a background of circuit boards. At the top, a navigation bar includes links for Home, Product Range, FAQ, Support, Site Map, Events, Partners, Distributors, and Contact Us. A sidebar on the left lists Product Groups such as Development Solutions, PCI104 Products, PCI Products, PMC Products, PXI Products, SLB Modules, Software, Sundance Modules, Sundance Computers, Turnkey Solutions, and University Promotions. The main content area features a table with descriptions for various product categories. A search bar and language selection options are located at the bottom left. The footer contains the Sundance logo and the tagline 'SUNDANCE The DSP & FPGA Development Force'.

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PCI104 Products	Designers and manufacturers of wireless infrastructures, satellite communications, industrial signal processing, sonar/radar, software defined radio (SDR), multimedia and telecommunications, all depend on the flexibility of Sundance's mixed DSP+FPGA platforms and systems to get their products to market – FAST!
PCI Products	Key design and manufacturing facilities are located in the UK, Europe and North America, and our worldwide network of agents – extending as far as Asia – provides quality service and support.
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PXI Products	
SLB Modules	
Software	
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