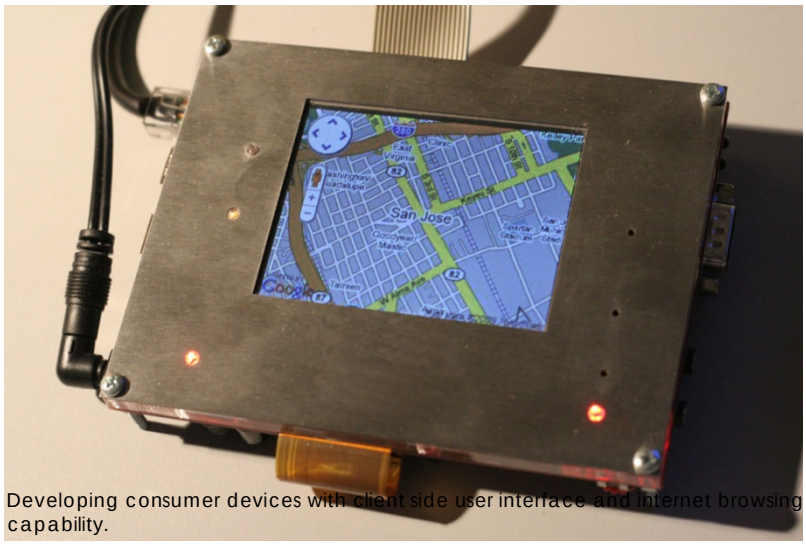
JetC - JavaScript Embedded Toolkit in C

Create graphically rich intuitive and responsive user interfaces for your embedded application in less time, with less effort and with a better look and feel.

- Your user interface designers
  - Use the same techniques used by web site developers use to create rich embedded interfaces.
  - Use HTML and Cascading Style Sheets to design interfaces rich with tables, images, and dynamic elements like text boxes, drop boxes, lists and custom controls.
  - Use Javascript to develop more sophisticated user interfaces with less effort than with older 'C' based technologies.
  - Use 'C' to develop application specific embedded code.
- JET provides a standards based renderer with power similar to IE4.
- JET provides a gateway between Javascript and 'C'.
- JET provides high performance Javascript graphics extensions.
- JET provides access to operating system networking and file system resources.



Developing consumer devices with client side user interface and internet browsing capability.

Point Of Sale - Use web authoring techniques to create screens for portable

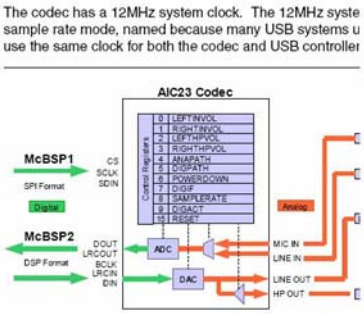


Table 7: System LEDs

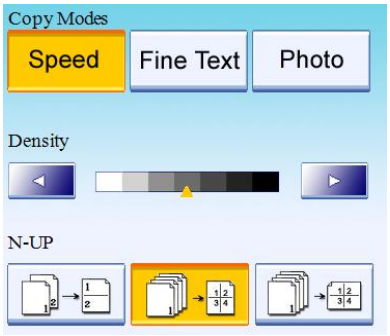
Reference Designator	Color	Function	On Signal State
D4	Green	USB Emulation in use. When External JTAG Emulator is used this LED is off.	1
D3	Green	+5 Volt present	1
D6	Orange	RESET Active	1
D5201	Green	USB Active, Blinks during USB data transfer	1

- JET enables rapid and robust application development, whether it's simple dialog building, rich content, freeform graphics, or integration with the Web sites. Dialogs can be built using HTML forms including graphical elements. The HTML rendering engine is a natural fit for rich content applications like help systems.
- Freeform graphics capabilities are provided to JavaScript application software through a set of proprietary DOM extensions. These allow the application code to render graphic elements at run-time.
- Because the underlying rendering engine uses standard DHTML and JavaScript, integration with Web sites is trivial.
- Application scripts are extensible through "C" language hooks. This allows integration with application specific hardware and software.

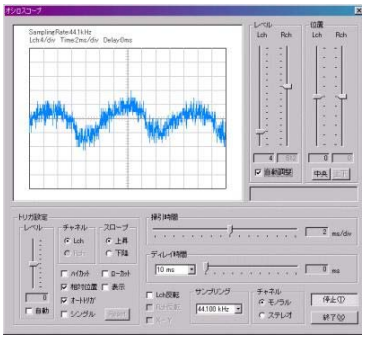
On line help - Provide content rich, dynamic on line help.

Develop graphical user interfaces for a wide range of industries and applications.

Industrial - Connects a JavaScript, image based UI to your C based Real Time



Business Machines - Create rich user interfaces with image, language and

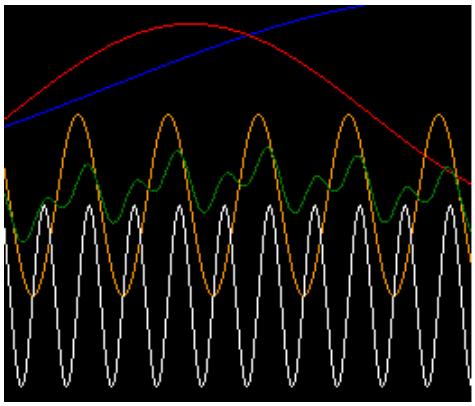


Real Time - Create a rich UI with JavaScript and combine JET C based graphics

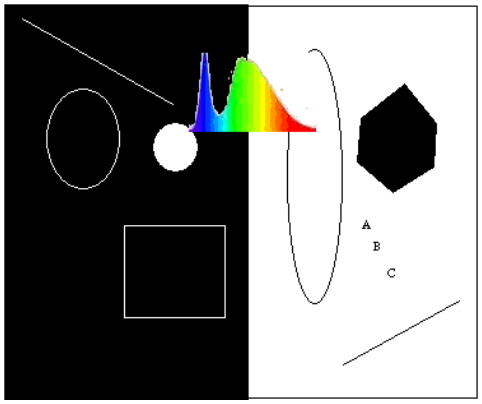
Mix standard JavaScript and HTML with JET JavaScript extensions and your own application specific 'C' source code to develop powerful applications in less time.

- Basic controls can be created and positioned dynamically or they can be included in source html documents that act like resource files. Style Sheets and background add extra decorations.
- JavaScript event and programming model for easy and rich UI.
- Use clip art, custom artwork and photographic images to create custom buttons, keypads, slide pots, dials, thumb-wheels.
- Easy JavaScript programming model.
- Powerful results, execute in 'C' if you need to.
- Text boxes in one line of code and images backdrops.
- Use JET Framework to call native 'C' executable code and pass parameters.
- Combine background images, active screen areas, active DOM objects, fast image manipulation.
- Use flexible compact standard JavaScript programming to develop your embedded application's user interface needs.

Render graphics in Real Time to provide a dynamic user experience while retaining the simplicity of JavaScript programming.



Building instrumentation requiring both a rich user interface and high performance native graphics. JET provides a gateway between JavaScript and C to run signal processing and device interface algorithms in 'C'.



Native performance, polygon, line, arc and ellipse draws. Bitmap images are the canvas so any graphic element may be custom dawn. Alpha channel support for creating high performance image overlays. Bitmap transformation functions for blending, and sprite graphics.

Technical Close-up

Requirements

Processor: Any 32 bit, 30+ MHz processor.

Code Footprint: Runs in 550K byte ROM footprint.

RAM: Minimum core RAM allocation is 200K bytes – increasing with added UI complexity. 1MB typical.

Compiler: Any ANSI C++ compliant compiler (GCC, WindRiver, IAR, Visual C++ have all been tested).

Operating System: None required. Support available for Linux, VxWorks, Nucleus, embOS, SMX, Windows CE.

Graphics Package: None is required. Uses its own graphics engine and draws directly to system graphics memory.

Graphics Drivers: If a graphics package is present the webC engine can integrate with it. Pre configured drivers are available for PEG,CPEG, GDI, GDI+, emWin, Nucleus, WindMI, XLIB and NanOX.

License: Royalty-free, source code provided.

Supports

Rendering Engine: HTML 4.01†, CSS Level 2†

Scripting Engine: JavaScript 1.4 (Mozilla SpiderMonkey 1.6)

Object Model: W3C DOM Level 1†

Network: HTTP 1.1, SSL (using Open SSL)

Browser Features: Cookies, History, Caching.

Image Formats: JPG, MNG, PNG, GIF, BMP

Localization: Installable fonts, Unicode Fonts, page based language localization.

Graphics: Supports any screen resolution including popular lcd formats quarter VGA (320X240) and VGA (640 x 480). Supports monochrome, grey scale, 8, 16, 24, 32 bit color, off-screen draw, dithering, image scaling.

Input devices: Supports touch screen, mouse, keyboard. Can also support application specific membrane keypads, soft keyboards and controllers.

Emulator: Full emulation environment provided on Microsoft Windows.

Content Delivery: File, Network (HTTP), ram, or rom (statically bound).

Modularity and Extensibility: Abstraction API's for graphics, human interface devices, network, file I/O, and system services.

† Minor portions of these standards not supported

For More Information

EBS is pleased to offer you a quotation tailored to your project. We also offer customized consulting services to aid in the integration and bring-up effort. Contact us for more information.

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