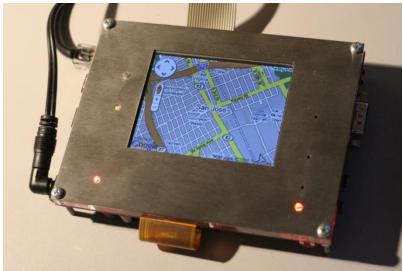


webC Embedded Toolkit

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.

The EBS webC is a powerful tool for developing embedded Graphical User Interface applications. The underlying rendering engine utilizes Dynamic HTML, Cascading Style Sheets, and JavaScript allowing user interfaces to be designed using standard Web authoring tools. webC browser technology that has been in the marketplace for over 10 years.

The toolkit runs on 32 bit processors in a small footprint and minimal memory usage. It can be deployed on top of an embedded operating system, or without one altogether. Similarly, webC supports several industry graphics packages, but will also run independent of a graphics package using its own native frame buffer driver.



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

webC 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.

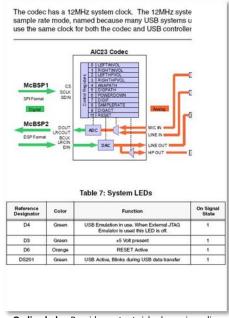
Freeform graphics capabilities are provided to JavaScript application software through a set of proprietary DOM extensions. These allow the application code to render graphic elements at run-time.

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.



Point Of Sale - Use web authoring techniques to create screens for portable and fixed POS terminals.

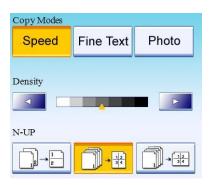


On line help - Provide content rich, dynamic on line help.

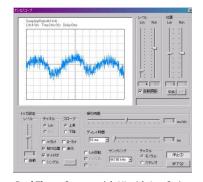
Develop graphical user interfaces for a wide range of industries and applications.



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



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



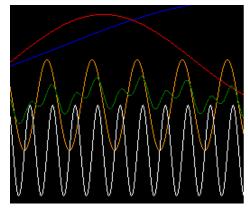
Real Time - Create a rich UI with JavaScript and combine JET C based graphics primitives.

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

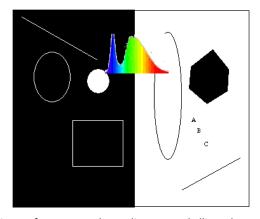
webC offers ease-of-use unparalleled by other GUI development platforms. Applications can be written with easy to use, off-the-shelf Web development tools.

- 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 webC 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, WindMl, 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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