

VxWorks Embedded Vector Font Solution: eTTF™

eTTF™

As embedded devices increase in functionality and capability, the need for user interface improvements continues. More often, end users require the look and feel of a desktop system. The ability to use vector fonts, such as TrueType fonts, helps to meet this requirement. PSA has implemented eTTF™, a vector font solution for VxWorks applications. This solution allows the ability to include TrueType or other vector fonts on your target application, including multi-byte fonts. Advanced capabilities, such as scaling, rotation, and anti-aliasing are supported.

eTTF uses the FreeType font engine and includes a WindML font driver. eTTF installs under the Tornado tree and is fully configurable with the WindML GUI so that the Font Engine and WindML Font Driver can be configured then built as part of WindML. Hence, there is no integration effort on the part of the developer: Just install, configure in the WindML GUI, and rebuild WindML.

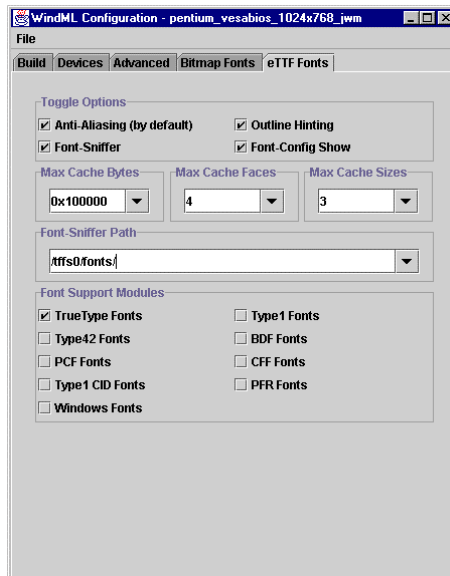
Advantages

- TrueType fonts
- Broad availability of font types and styles
- Widely accepted standard
- Low cost solution
- Equivalent functionality as expensive proprietary solutions
- No hassle licensing terms on software and fonts unlike proprietary solutions

Product Highlights

WindML font driver for the FreeType engine, including:

- Configurable in the WindML GUI
- Supports font file compression
- Font-Sniffer
- Anti-aliasing
- Rotation
- Size
- Scaling
- Outline Hinting
- Thread Safe
- Enhanced Caching via UGLBits
- 256 levels of gray scaling
- Object Oriented Model
- Small Driver Footprint: 15K max
- Small Engine Footprint: 373K with all modules included, smaller based on configuration



Supported Font Types

- TrueType
- Type42
- PCF
- Type 1 CID
- Windows Fonts
- Type 1
- BDF
- CFF
- PFR
- Bitmap Fonts



eTTF example using MS Gothic fonts

Requirements

- VxWorks Version 5.4 w/Tornado or later
- WindML 2.0 or later

Prerequisites

Developers should be familiar with C, WindML, and the VxWorks operating system. Developers should have experience in constructing WindML applications in the Tornado® environment.

Custom Font Support

Need specific or enhanced fonts for your application? For those who desire custom printer or font support, contact PSA for more information.

Partner Information

- Wind River Premier Partner
- Wind River Professional Services Partner

License Information

Licenses are provided on a "per project" basis. There are no royalties or runtime fees. Source code is included.

Purchasing Information

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