

Porting Inline Assembly from Legacy Code Generation Tools to ETEC

Overview

The ETEC compiler supports inline assembly, and in most cases the supported syntax matches that of the existing tools. However, there are some differences, and that is the focus of this document. The information in this document may also prove useful to someone writing new eTPU code in which they have a need to write portions in assembly. Assembly and assembly syntax details can be found in the ETEC Assembler Reference Manual.

The document begins with an overview of the inline assembly processing framework, followed by a section that focuses on C / assembly interfaces, and a section on assembly syntax differences in ETEC versus that found in legacy code.

References

ETEC Reference Manual
ETEC Assembler Reference Manual
ETEC Porting Guide

Inline Assembly Framework

When source code is processed through the ETEC C Compiler, assembly code within must be devoted one of two ways:

- a single line can be encapsulated with `#asm (<assembly source>)`.
- multiple lines of assembly source can be devoted with a starting `#asm` (by itself on a line), followed by assembly source, and ending with a `#endasm` directive (by itself on a line).

```
#asm  
PM09WC_514B_000;  
    asm r12 = g20_18 low^ 0x00, 0x00;  
    if 0 == 1 then goto PM09WC_514B_00, flush;  
#endasm
```

The assembly source is pre-processed just like other portions of the source file – C comments (`//` and `/* */`) are stripped and macro replacement is performed. In general, it is best to use the `#asm / #endasm` syntax when more than a few consecutive lines of assembly are required. In all cases – `#asm`, `#endasm`, `#asm()` – the text of these can be placed anywhere in the source text as long as it is inside a C function scope – these directives do not need to be the first non-white-space text on a source line.

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Guillaume Favre

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Etec E651s Assembly User Guide

1. Understanding the eBook Etec E651s Assembly User Guide
 - The Rise of Digital Reading Etec E651s Assembly User Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Etec E651s Assembly User Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Etec E651s Assembly User Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Etec E651s Assembly User Guide
 - Personalized Recommendations
 - Etec E651s Assembly User Guide User Reviews and Ratings
 - Etec E651s Assembly User Guide and Bestseller Lists
5. Accessing Etec E651s Assembly User Guide Free and Paid eBooks
 - Etec E651s Assembly User Guide Public Domain eBooks
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 - Etec E651s Assembly User Guide Budget-Friendly Options

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 - Etec E651s Assembly User Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Etec E651s Assembly User Guide
 - Highlighting and Note-Taking Etec E651s Assembly User Guide
 - Interactive Elements Etec E651s Assembly User Guide
8. Staying Engaged with Etec E651s Assembly User Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Etec E651s Assembly User Guide
9. Balancing eBooks and Physical Books Etec E651s Assembly User Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Etec E651s Assembly User Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Etec E651s Assembly User Guide
 - Setting Reading Goals Etec E651s Assembly User Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Etec E651s Assembly User Guide
 - Fact-Checking eBook Content of Etec E651s Assembly User Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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