

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. *Assembler 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 denoted one of two ways:

- a single line can be encapsulated with `#asm ( <assembly source> )`.
- multiple lines of assembly source can be denoted 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
PMONTC_5148_000;
    asm m12 = g20_18 low^ Qx00; cca0;
    if 5 == 1 then go to PMONTC_5148_0E; 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.

Etec E651s Assembly User Guide

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and microorganisms. (a) (i). Salts that a plant needs, such as nitrates and phosphates, are ... Summary Notes - Topic 6.3 OCR (A) Biology A-Level The process occurs as following: • Nitrogen is first fixed by bacteria such as Rhizobium which live in the root nodules of leguminous plants such as pea plants. A level biology- enzymes A level biology- enzymes ... Explain how the following food preservation works: 1) Placing peas in boiling water for 1 minute then freezing them at -18 degrees. 2 ... ocr-a-level-biology-a-sb2-answers.pdf (e) Illuminated chloroplast produces oxygen; in light-dependent stage of photosynthesis; from photolysis of water; bacteria cluster where there is most oxygen; ... ocr a level biology nitrogen cycle Flashcards rhizobium as a nitrogen fixing bacteria. found in root nodules of leguminous plants such as peas and beans. nitrification definition. the process of converting ... The Nitrogen Cycle A2 OCR Biology Asking questions is a ... The Nitrogen Cycle A2 OCR Biology Asking questions is a sign of INTELLIGENCE ... bacteria) nitrogen fixing plant eg pea, clover bacteria. Nitrogen in the air ... 5.4.1 Plant Responses - 5.4.1 OCR bio notes Absciscic acid Inhibit seed germination and growth of stems. Ethene Promotes fruit ripening. The cell wall around a plant cell limits the cell's ability to divide ... THE GLASS MENAGERIE, [MUSIC: 'THE GLASS MENAGERIE' UNDER FAINTLY. Lightly.] Not one gentleman ... [MUSIC: ' THE GLASS MENAGERIE'. He stretches out his hand.] Oh, be careful - if ... The Glass Menagerie book script of the play. [SCREEN LEGEND: 'OÙ SONT LES NEIGES."'] There was young Champ Laughlin who later became vice-president of the Delta Planters. Bank. The Glass Menagerie - Tennessee Williams (AMANDA exits through living-room curtains. TOM is left with LAURA. He stares at her stupidly for a moment. Then he crosses to shelf holding glass menagerie. The Glass Menagerie Amanda Wingfield is a faded, tragic remnant of Southern gentility who lives in poverty in a dingy St. Louis apartment with her son, Tom, and her daughter, ... The Glass Menagerie When Amanda convinces Tom to bring home from his workplace a "gentleman caller" for Laura, the illusions that Tom, Amanda, and Laura have each created in order ... The Glass Menagerie Text Scene 1: The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as. Tennessee Williams - The Glass Menagerie (Scene 3) LEGEND ON SCREEN: 'AFTER THE FIASCO' [TOM speaks from the fire-escape landing.] TOM: After the fiasco at Rubicam's Business College, the idea of getting a ... "The Glass Menagerie," Scene One and Scene Two, by ... 41 Scene 1. 352 The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams - The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb ! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ... Visual Mnemonics for Physiology and... by Marbas, Laurie L. Visual Mnemonics for Physiology and Related Anatomy (VMS) uses cartoon drawings that make the material easier to learn with tremendous recall months later. Visual Mnemonics for Physiology and Related... by Laurie ... Visual Mnemonics for Physiology and Related

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