

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 mli = g20_18 low 9x00, 0x00;
    if x == 1 then goto 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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