

I-code ENTRY instruction

This document describes the form of the I-code ENTRY instruction which is required by EPCL to implement the Fortran side-entry to procedures.

Instruction: Entry "identifier"

Effect: The given identifier (case unaltered) is used to define an external entry point for the current block at the current location within that block. It is assumed that the parameter list for the enclosing block will be used as the parameter specification for the entry (perhaps with some extra parameters for other entry points). This item does not imply the start of a new block but an alternative entry point for the current block. Consequently, the code generator may have to generate instructions to set up entry information equivalent to that of the main entry to the block.

- Notes:
1. It is up to the I-code generator (Pass1) to ensure that control cannot fall through from the previous instruction to an ENTRY instruction.
 2. Return from the block will be performed as if the entry had been from the start of the block.
 3. Side entries can only be accessed through external procedure references to the entry identifier.
 4. It is unlikely that this scheme for implementing ENTRY will work on architectures other than the transputer!

Errors: None

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