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About this Readme

In order to keep you up-to-date on the latest developments and changes relating to our products, we provide this Readme file. For more information on the current software versions or hardware revisions as well as our updating service, please do not hesitate to contact your local Hitex representative.

R E A D M E

Product	USCALE-XC800
Release Date	2007-05-09
Version	HiTOP V5.20 (Build No. 05.20.0400)

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1 Compiler

1.1 SDCC Compiler Restrictions with HiTOP

When using the SDCC C compiler with HiTOP, some restrictions must be taken into consideration:

- **Missing debug information for variables**

  In the CDB debug format produced by the compiler/linker each variable (except register variables) is defined in two records. The first one defines the variable's name and type; the second one provides the address information for the variable.

  In some cases, the second record providing the variable's address is not present in the CDB file, which causes these variables not to be defined in HiTOP's debug information.

- **Nested blocks**

  When using nested blocks containing variables, in most cases the compiler/linker will produce inconsistent block information. Therefore variables defined in nested blocks may not be displayed correctly in HiTOP.

- **Call stack**

  As no documentation exists on the stack organization, the call stack feature in HiTOP is not implemented for this compiler.

- **Output directory for object files**

  It is not possible to define an output directory for object files. The compiler provides an option to specify the output path, where it will place the intermediate assembler and debug information files. However, this information is lost in the subsequent call of the assembler, which will therefore put the relocatable object file in the same directory where the source file is located.

- **Linker options**

  The linker accepts options from stdin or from any command file. The specification of command line options is not possible. Since HiTOP does not provide interactive operation during the build, a command file must be used.

  From the linker command file, HiTOP will create the final command file by replacing $(LinkObjects) by the list of object files.

- **Name of the target file**

  The linker does not allow the specification of the target file name. Instead it will use the name of the first object specified in the list of object files to be linked as the base name for the target file.

  The object list HiTOP creates in the command file, will be alphabetically sorted. Therefore the object file which should be used for the name of the target file should explicitly be specified first, e.g.:

  ```
  TestMain.rel
  $(LinkObjects)
  ```

  will produce TestMain.cdb as the final target file.