

```
C:\Windows\system32\cmd.exe
D:\Alex\Ldmicro\Ldmicro_5.3.0.4> = EXE_PATH
PIC16 = ISA
"D:\Alex\Ldmicro\Ejercicios\I2C DS3231\i2c_ds3231" = full 'filename.ld' with the path
HI_TECH_C = compiler
16f877 = deviceName, target name

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>REM Compilation with HiTech-c (Picc)

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>SET PCC_PATH=C:\Program Files (x86)\HI-TECH Software\PICC\9.82

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>SET LIB_PATH=D:\Alex\Ldmicro\Ldmicro_5.3.0.4\LIBRARIES_FOR\PIC16

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>path C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\v1.0\;D:\Alex\CCS\PICC;D:\Alex\
\MPLAB_IDE\MPLAB_C32_Suite\bin;D:\mplab\bin;C:\Program Files (x86)\HI-TECH Software\PICC\9.82\bin;C:\Users\Usuario\AppData\Local\Microsoft\WindowsApps;C:\Program Fil
es (x86)\HI-TECH Software\PICC\9.82\bin

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>D:

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>chdir \Alex\Ldmicro\Ejercicios\I2C DS3231\

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>REM Compilation of sources

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>mkdir HTC\obj /s /q

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>mkdir HTC\bin /s /q

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>mkdir HTC\obj

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>mkdir HTC\bin

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>mkdir HTC\lib
Ya existe el subdirectorio o el archivo HTC\lib.

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>if not exist HTC\lib\UsrLib.c copy D:\Alex\Ldmicro\Ldmicro_5.3.0.4\LIBRARIES_FOR\PIC16\*. * HTC\lib

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>for %F in (HTC\lib\*.c) do picc.exe --pass1 %F -q --chip=16f877 -P -I\Alex\Ldmicro\Ejercicios\I2C DS3231\ -I\Alex\Ldmicro\Ejercic
ios\I2C DS3231\HTC\lib --runtime=default --opt=default -g --asmlist --OB3DIR=HTC\obj

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>picc.exe --pass1 HTC\lib\AdcLib.c -q --chip=16f877 -P -I\Alex\Ldmicro\Ejercicios\I2C DS3231\ -I\Alex\Ldmicro\Ejercicios\I2C DS323
1\HTC\lib --runtime=default --opt=default -g --asmlist --OB3DIR=HTC\obj
(894) unknown source file type "DS3231"

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>picc.exe --pass1 HTC\lib\I2cLib.c -q --chip=16f877 -P -I\Alex\Ldmicro\Ejercicios\I2C DS3231\ -I\Alex\Ldmicro\Ejercicios\I2C DS323
1\HTC\lib --runtime=default --opt=default -g --asmlist --OB3DIR=HTC\obj
```

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(894) unknown source file type "DS3231"

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>picc.exe --pass1 HTC\lib\LcdI2Lib.c -q --chip=16f877 -P -I\Alex\Ldmicro\Ejercicios\I2C DS3231\ -I\Alex\Ldmicro\Ejercicios\I2C DS
3231\HTC\lib --runtime=default --opt=default -g --asmlist --OB3DIR=HTC\obj
(894) unknown source file type "DS3231"

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>picc.exe --pass1 HTC\lib\PwmLib.c -q --chip=16f877 -P -I\Alex\Ldmicro\Ejercicios\I2C DS3231\ -I\Alex\Ldmicro\Ejercicios\I2C DS323
1\HTC\lib --runtime=default --opt=default -g --asmlist --OB3DIR=HTC\obj
(894) unknown source file type "DS3231"

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>picc.exe --pass1 HTC\lib\Spilib.c -q --chip=16f877 -P -I\Alex\Ldmicro\Ejercicios\I2C DS3231\ -I\Alex\Ldmicro\Ejercicios\I2C DS323
1\HTC\lib --runtime=default --opt=default -g --asmlist --OB3DIR=HTC\obj
(894) unknown source file type "DS3231"

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>picc.exe --pass1 HTC\lib\UsrLib.c -q --chip=16f877 -P -I\Alex\Ldmicro\Ejercicios\I2C DS3231\ -I\Alex\Ldmicro\Ejercicios\I2C DS323
1\HTC\lib --runtime=default --opt=default -g --asmlist --OB3DIR=HTC\obj
(894) unknown source file type "DS3231"

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>picc.exe --pass1 i2c_ds3231.c -q --chip=16f877 -P --runtime=default -IHTC\lib --opt=default -g --asmlist --OB3DIR=HTC\obj
ladder.h:
15: #define _XTAL_FREQ 2000000UL
^ (111) redefining preprocessor macro "_XTAL_FREQ" (i2c_ds3231.c: 17) (warning)
i2c_ds3231.c: PicCycle()
781: }
^ (350) unused label "LabelRung10" (from line 255) (warning)
^ (350) unused label "LabelRung11" (from line 271) (warning)
^ (350) unused label "LabelRung12" (from line 286) (warning)
^ (350) unused label "LabelRung13" (from line 290) (warning)
^ (350) unused label "LabelRung14" (from line 380) (warning)
^ (350) unused label "LabelRung15" (from line 459) (warning)
^ (350) unused label "LabelRung16" (from line 557) (warning)
^ (350) unused label "LabelRung17" (from line 659) (warning)
^ (350) unused label "LabelRung18" (from line 765) (warning)
^ (350) unused label "LabelRung19" (from line 779) (warning)
^ (350) unused label "LabelRung1" (from line 140) (warning)
^ (350) unused label "LabelRung2" (from line 154) (warning)
^ (350) unused label "LabelRung3" (from line 169) (warning)
^ (350) unused label "LabelRung4" (from line 173) (warning)
^ (350) unused label "LabelRung5" (from line 188) (warning)
^ (350) unused label "LabelRung6" (from line 203) (warning)
^ (350) unused label "LabelRung7" (from line 207) (warning)
^ (350) unused label "LabelRung8" (from line 222) (warning)
^ (350) unused label "LabelRung9" (from line 226) (warning)
```

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D:\Alex\Ldmicro\Ejercicios\I2C DS3231>REM Linkage of objects

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>picc.exe -oHTC\bin\i2c_ds3231.cof -mHTC\bin\i2c_ds3231.map --summary=default --output=default HTC\obj\*.p1 --chip=16f877 -P --run
time=default --opt=default -g --asmlist --OB3DIR=HTC\obj --OUTDIR=HTC\bin
(1273) Omniscient Code Generation not available in Lite mode (warning)
HI-TECH C Compiler for PIC10/12/16 MCUs (Lite Mode) V9.82
Copyright (C) 2011 Microchip Technology Inc.
: 0: (500) undefined symbols:
_I2C_MasterGetReg(HTC\bin\i2c_ds3231.obj) _I2C_Init(HTC\bin\i2c_ds3231.obj) _bcd2bin(HTC\bin\i2c_ds3231.obj) _I2C_MasterSetReg(HTC\bin\i2c_ds3231.obj)
(908) exit status = 1

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>REM Convert Elf to Hex

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>REM Transfer of the program with ...

D:\Alex\Ldmicro\Ejercicios\I2C DS3231>PAUSE
Presione una tecla para continuar . . .
```