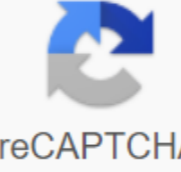


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MCU 8051 IDEDeveloper (s)Martin OshamerInitial release2007Syst release1.4.9 (2014) Written inC/TK and operating systemUnix-like, FreeBSDAvailable inEnglish, ChineseTypeIntegrated Environmental DevelopmentLicenseGNU General Public LicenseWebsitesourceforge.net/projects/mcu8051ide/ MCU 8051 IDE is a free software integrated development environment for microcontrollers based on 8051. The MCU 8051 IDE has its own simulator and collector (support for some external pickers is also available). This IDE supports two programming languages: C (compilation with SDCC) and a learning language. This software seems to only work on Linux platforms. Although the readme file on sourceforge mentions the Windows version, no window version of the software is found. Supported MCUs The current version 1.4 supports many microcontrollers including 8051, 80C51, 8052, AT89C2051, AT89C4051, AT89C51, AT89C51RC, AT89C52, AT89C55WD,AT89LV51, AT89LV52 AT89LV55, AT89S52, AT89LS51, AT89LS52, AT89S253, AT89S2051, AT89S4051, T87C5101, T83C5101, T83C5102, TS80C32X2, TS80C52X2, TS87C52X2, AT80C32X2, AT80C52X2, AT87C52X2, AT80C54X2, AT80C58X2, AT87C54X2, AT87C58X2, TS80C54X2, TS80C58X2, TS87C54X2, TS87C58X2, TS80C31X2, AT80C31X2, 8031, 8751, 8032, 8752, 80C31, 87C51, 80C52, 87C52, 80C32, 80C54, 87C54, 80C58, and 87C58. Features of the MCU simulator with many debugging functions: register status, step-by-step, interruption of viewing, external memory viewer, code memory review, etc. Simulator for some electronic peripherals, such as LEDs, LED displays, LED sensors, LCD displays, etc. Support C language Native macro-collector Support ASEM-51 and other Collectors Advanced Text Editor with Syntax highlighting and verification support and nano embedded in IDE Simple hardware programmer for some AT89Sxx MCUs Scientific Calculator: time delays calculation and code generation, basic converter Hexadecimal Editor Of Similar Software Keil C51 MIDE-51 Studio MikroElektronika See also 8051 Information Language Assembly C Language External Links MCU 8051 IDE. Free code. Paul 8051 Tools, Projects and Free Code ASEM-51 SDCC extracted from Can anyone using MCE 8051 IDE please help me with a very simple question?? Why does compiling simple C-code projects lead to a message that can't be found LEDMatrix1.cdb? I've never been able to compose a project in this IDE, no Hex file generated. Full compilation report: Running a compiler ... cd C:\Program Files-MCU 8051 IDE-demo-LedMatrix1 sdcc -mmcs51 --iram-size 256 --xram-size 0-code-size 8192-nooverlay --- noinduction --multi-sort --fixing-V-std-sdcc89 --model-small-I Crogram FilesSDCCinclude LEDMatrix1.c FilesSDCCinclude was unexpected at this time. Impossible to find LEDMatrix1.cdb question -- Most likely it's if it's not what you want, go to the Main Menu -- Tune -- Compiler Compiler (C language) -- --gt; (General) and turn on the compiler switch --fix. A compilation of successful ----- Any advice appreciated as Scroll's response to continue the content I had the same problem. Have you entered the compiler configuration in C: Program Files (SDCC)? Try this instead and it should work: C: Progra1 SDCC Turn On How to Respond Analyzed about 8 hours ago. based on code collected about 9 hours ago. Security Project There are no reports of vulnerabilities Bad security track-record Favorable Security Track-Record Many reported vulnerability Percentage: 0.000000% Rank: 1st of 3043 style-float: left; Margin left: 100.00% qgt; Few reported vulnerabilities on the Project Vulnerability Report Do you know..... 55% of companies use OSS for production infrastructure ... Data presented at Open Hub is available through our API... in 2016, 47% of companies do not have a formal OS code tracking process... You can subscribe to the newsletters via email to get an update from the Open Hub gub about the Security Project Here are some test projects suitable for any 8051 microcontroller to show how to use Turbo51. They can also be used to quickly view generated code. Collector files can also serve as examples of 8051 code. Example 1 is an example of 8051 hello to the world. Example2 is a simple example. It shows the main features of Turbo51. Example 3 This example is part of the real 8051 project. It shows how to use Turbo51 and its features. Example 4 This example demonstrates sets and routines/functions. Example 5 Display Controller is another real project 8051. Example 6 Keyboard/RS232 interface controller - a simple project 8051. Example 7 Communication Controller - Complex Project 8051 using interruption, RS485 serial communication, DAC conversion, I2C, EEPROM, etc. 8051 calculator example in Turbo51 is an example of a simple calculator 8051 - it should work on any 8051 microcontroller, just adjust the ossillo frequency and the pod speed formula. Below you can see the code. This is a simple example of 8051 code - to show how easy it can be to program with Turbo51. Program calculator; Konst Usc No. 22118400; BaudRateTimerValue - Byte (- Osc div 12 div 32 div 19200); Var SerialPort: Text; Num1, Num2: LongInt; WriteToSerialPort procedure; Collector; Asm CLR TI MOV SBUF, @WaitLoop; JNB TI, @WaitLoop end; Функция ReadFromSerialPort: Char; Var ByteResult: Byte absolute result; Start While it's not RI to do; RI : False; ByteResult : - SBUF; - Echo symbol Asm MOV A, LCALL WriteToSerialPort end result; The end; Init procedure; Start TL1 : BaudRateTimerValue; TH1 : - BaudRateTimerValue; TMOD :%00100001; Timer1: no GATE, 8 bit timer, automatic SCON download : %01010000; Serial Mode 1, Enable Reception (TI : Truth; Point out that TX is ready TR1 : True; timer 1 and end; \$DefaultFile on begin Inite; Appoint (CurrentIO, ReadFromSerialPort, WriteToSerialPort); WriteIn ("Turbo51 IO file demo - integer calculator"); Repeat write первый номер:); Ридльн (Num1); Пишите ("Введите второй номер:"); Ридльн (Num2); WriteIn (Num1, '-', Num2, '****', Num1 - Num2); WriteIn (Num1, '-', Num2, '****', Num1 - Num2); до ложных; Конеч. Составленный код выглядит так: Turbo51 версия 0.1.3.10, Авторское право 2000 - 2011 Игорь Фуна \$REGISTERBANK (0) _CODE SEGMENT CODE _CONST SEGMENT CODE _DATA SEGMENT DATA EXTRN DATA (CurrentIO) EXTRN IDATA (StackStart) EXTRN CODE (sysWriteStr_CODE) EXTRN CODE (sysWriteLine) EXTRN CODE (sysReadLongInt) EXT CODE (sysStore_Long0_To_IDATA) EXT PH КОДЕ (sysReadLine) EXTRN CODE (sysLoad_Long0_From_IDATA) EXTRN CODE (sysPushLongIntBCD) EXTRN CODE (sysWriteDecimalPushedBytes) EXTRN CODE (sysLoad_Long1_From_IDATA) EXTRN CODE (sysLongAddition) EXTRN CODE (sysLongSubtraction) Калькулятор программы; ; Konst RSEG _CONST ; Osc No 22118400; ; BaudRateTimerValue - Byte (- Osc div 12 div 32 div 19200); ; Var SerialPort: Текст; ; Num1, Num2: LongInt; RSEG _DATA Num1: DS 4 Num2: DS 4; ; Процедура WriteToSerialPort: Сборщик; RSEG _CODE USING 0 WriteToSerialPort; ; Асм ; CLR TI CLR SCON.1; MOV SBUF, MOV SBUF, A; @WaitLoop: L_0111: ; JNB TI, @WaitLoop JNB SCON.1, L_0111; конец; RET ; ; Функция ReadFromSerialPort: Char; RSEG _DATA ReadFromSerialPort_Result: DS 1 ; Var ByteResult: Байт абсолютный результат; БайтРесульт ЭКУ ReadFromSerialPort_Result RSEG _CODE ReadFromSerialPort; ; начать ; Хотя не RI делать: L_0115: JNB SCON.0, L_0115; RI : > Ложное; CLR SCON.0; БайтРесульт : - СБУФ; MOV ReadFromSerialPort_Result, SBUF ; ; Эхо-символ ; Асм ; MOV A, Результат MOV A, ReadFromSerialPort_Result; LCALL WriteToSerialPort LCALL WriteToSerialPort ; конец; ; конец; MOV A, ReadFromSerialPort_Result RET ; ; ; Процедура Init; Инит: ; начать ; TL1 : - BaudRateTimerValue; MOV TL1, 3\$FD; TH1 : - BaudRateTimerValue; MOV TH1, No SFD; TMOD :%00100001; Таймер1: нет GATE, 8 бит таймер, автоматическая загрузка MOV TMOD, 21 евро; SCON :%01010000; Серийный режим 1, включить прием (MOV SCON, 50 евро; TI : >Правда; Укажите, что TX готов SETB SCON.1 ; TR1 : > Правда; Включить таймер 1 SETB TCON.6 ; конец; RET RSEG _CONST C_0435: DB 41, Turbo51 Ю файл демо - integer калькулятор' C_045F: DB 20, 'Введите первый номер: ' C_0474: DB 21, 'Введите второй номер: ' C_048A: DB 3, 'No ' C_048E: DB 3, 'q ' C_0492: DB 3, '-' C_0496: DB 3, '(\$DefaultFile на) ; ; начать MOV SP, #StackStart-1 ; Инит; LCALL Инит ; Назначить (CurrentIO, ReadFromSerialPort, WriteToSerialPort); MOV CurrentIO, #LOW (WriteToSerialPort) MOV CurrentIO-1, #HIGH (WriteToSerialPort) MOV CurrentIO-2, #LOW (ReadFromSerialPort) MOV CurrentIO-3, #HIGH (ReadFromSerialPort) ; ; WriteIn ("Turbo51 IO файл демо - integer калькулятор"); MOV DPTR, #C_0435 MOV R6, #0 LCALL sysWriteStr_CODE LCALL sysWriteLine; Повторите L_001D; ; Пишите ("Введите первый номер:"); MOV DPTR, #C_045F MOV R6, #0 LCALL sysWriteStr_CODE; Ридльн (Num1); LCALL sysReadLongInt MOV R0, #Num1 sysStore_Long0_To_IDATA LCALL sysReadLine; Пишите ("Введите второй номер:"); MOV DPTR, #C_0474 MOV R6, #0 LCALL sysWriteStr_CODE; Ридльн (Num2); LCALL sysReadLongInt MOV R0, #Num2 LCALL sysStore_Long0_To_IDATA LCALL sysWriteDecimalPushedBytes MOV DPTR, #C_048A MOV R6, #0 LCALL sysWriteStr_CODE MOV R0, #Num2 LCALL sysLoad_Long0_From_IDATA LCALL SysPushLongIntBCD MOV R6, #0 LCALL SysWriteDecimalPushedBytes MOV DPTR, #C_048E MOV R6, #0 LCALL sysWriteStr_CODE MOV R0, #Num1 LCALL sysLoad_Long0_From_IDATA MOV R0, #Num2 LCALL sysLoad_Long1_From_IDATA LCALL sysLongAddition LCALL sysPushLongIntBCD MOV R6, #0 LCALL sysWriteDecimalPushedBytes LCALL sysWLinerite; WriteIn (Num1, '-', Num2, '****', Num1 - Num2); MOV R0, #Num1 LCALL sysLoad_Long0_From_IDATA LCALL SysPushLongIntBCD MOV R6, #0 LCALL SysWriteDecimalPushedBytes MOV DPTR, #C_0492 MOV R6, #0 LCALL sysWriteStr_CODE MOV R0, #Num2 LCALL sysLoad_Long0_From_IDATA LCALL SysPushLongIntBCD MOV R6, #0 LCALL SysWriteDecimalPushedBytes MOV DPTR, #C_0496 MOV R6, #0 LCALL sysWriteStr_CODE MOV R0, #Num2 LCALL sysLoad_Long0_From_IDATA LCALL sysPushLongIntBCD MOV R6, #0 LCALL sysWriteDecimalPushedBytes MOV DPTR, #C_048E MOV R6, #0 LCALL sysWriteStr_CODE MOV R0, #Num1 LCALL sysLoad_Long0_From_IDATA MOV R0, #Num2 LCALL sysLoad_Long1_From_IDATA LCALL sysLongMultiplication LCALL sysPushLongIntBCD MOV R6, #0 LCALL sysWLinerite; до ложных; L JMP L_001D; Конеч. Конеч конца

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