

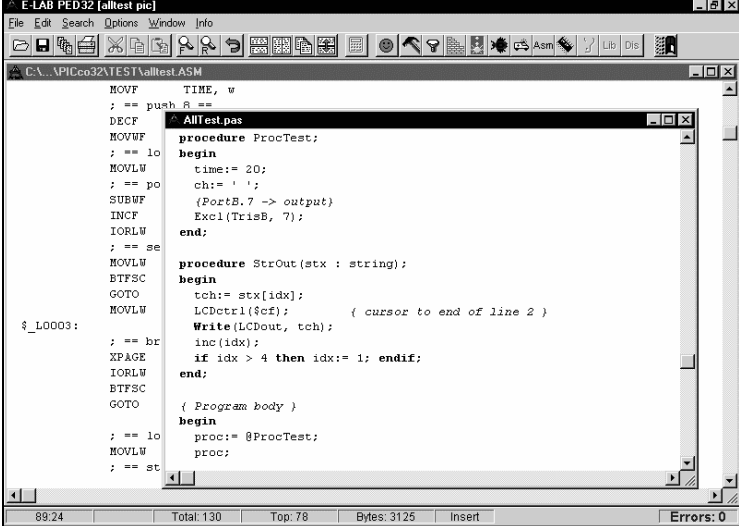
E-LAB Computers

PICco32 Pascal-sc

Features

- Pascal Compiler for the PIC 12C6xx, 16C6xx, 16C7xx, 16C8xx and 16F8xx family
- Nearly complete implementation of the Pascal standard
- Additional strong support of bit manipulation
- Many features especially for embedded control applications
- Most of the On-Chip peripherals are implemented by comfortable library routines:
SCI, ADC, PWM, Timer
- Additional drivers implemented by software:
LCD-display, I2C-BUS, Beeper, SwitchPort, Triggered port
- High level support of internal EEprom
- Complete support of the MPLAB system on high level language.
Single step on Pascal statements
- Assembler statements can be included in Pascal source
- Fast assembler
- Support for Softec's ICE
- Multi-window editor with comfortable project management
- Syntax and error highlighting
- Completely configurable environment
- WIN95 and WIN-NT only
- Low priced
- 6 months free update
- free demo versions

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The screenshot shows the PICco32 IDE interface. The main window displays assembly code for a PIC microcontroller, including instructions like MOVF, DECF, MOVWF, MOVWL, SUBWF, INCF, IORLW, and GOTO. A secondary window titled 'Alltest.pas' shows Pascal code with procedures ProcTest and StrOut. The StrOut procedure uses LCD functions like LCDclr, LCDout, and LCDdel. The status bar at the bottom indicates 89:24, Total: 130, Top: 78, Bytes: 3125, Insert, and Errors: 0.

Product Information

The PICco32 is a Pascal development system for the PIC family of microcontrollers. All devices with 14bit codelength are supported. The system was specially designed for the needs of the designer of embedded systems. Therefor many extensions for single chips are included.

PICco32 consists of a mighty multi window editor, the Pascal compiler and the assembler.

The editor resp. IDE is completely configurable, has configurable syntax and error highlighting, unlimited filesize, multiwindow. It's heavily project oriented. Automatic reload of faulty source files. Cursor will be positioned to the incorrect syntax position. Online help of the editor functions. Context sensitive online help for the Pascal syntax. Nearly unlimited undo/redo.

The Pascal compiler supports all standard definitions excl. Records, large arrays and floating point. Types: BIT, BOOLEAN, BYTE, CHAR, ENUM, WORD, INTEGER, POINTER, STRING, ARRAY.

Operators: NOT, DIV, MOD, AND, OR, XOR, SHL, SHR, ROL, ROR, IN
System functions: LO, HI, ABS, BIT, INCL, EXCL, TOGGLE, SETBIT
INC, DEC, SWAP, ODD, LENGTH, SIZEOF, DELAY, SOUND,
FILLBLOCK, COPYBLOCK, WATCHDOG, ENABLEINTS, INTTOSTR,
BYTETOSTR, INTOHEX, BYTETOHEX.

Statements: BEGIN, RETURN, END, IF, THEN, ELSE, ELSIF, ENDIF,
LABEL, GOTO, CASE, FOR, WHILE, REPEAT, LOOP, TYPE, CONST,
VAR, PROCEDURE, FUNCTION, TRUE, FALSE, NIL, IMPORT.

Support of onchip peripherals: ADC, SCI, PWM, TIMER.
Software implementation of LCD-Display, Sound, triggered/debounced Port and I2C-BUS.

Complete interrupt support and handling. Optional runtime errorhandling of software stack and string/array checks. Internal EEprom can be accessed as normal defined vars or as an array of bytes.

The compiler supports structured constants, forward declaration, conditional compile and also assembler statements.

The MPLAB simulator is completely integrated. Single steps and breakpoints on Pascal statements. Program variables can be examined with their Pascal names in the watch window.

Softec's low cost emulator is also completely supported.

Pascal sc is only available for WIN95/98/NT .

Types BOOLEAN, BYTE, CHAR, BIT, STRING, ARRAY, WORD, INTEGER, ENUM, PROCEDURE, POINTER, (LONGINT, LONGWORD, FLOAT)

Operants NOT, DIV, MOD, AND, OR, XOR, SHL, SHR, ROL, ROR, •, +, -

Keywords PROGRAM, FROM, IMPORT, DEVICE, DEFINE, CONST, VAR, PROCEDURE, FUNCTION, TRUE, FALSE, BEGIN, RETURN, EXIT, END, ASM, ENDASM, IF, THEN, ELSE, ELSIF, ENDIF, WHILE, REPEAT, UNTIL, LOOP, ENDLOOP, FOR, CASE, EXIT, LABEL, GOTO

System Library

LO, HI, ABS, INCL, EXCL, SETBIT, INC, DEC, BIT, SYSTICK, INTERRUPT, TIMFLAG1, RUNTIMEERR, TIMFLAG2, TMR0INT, TIMER, SWITCHP, PORT_STABLE, INP_STABLE, INP_RAISE, MDELAY, UDELAY, WRITE, READ, LCD, LCDOUT, LCDINP, LCDCTRL, LCDSTAT, RX_BUFF, TX_BUFF, SERINP, SEROUT, SERSTAT, ADCPORT, GETADC, PWMPORT, PWMOUT, I2CPORT, I2CINP, I2COUT, I2CSTAT, EEPROM, SOUND

Compiler Switches

{\$I Filename.ext}

Reads an Include file, where "Filename" can contain a file path

{\$J Filename.ext}

Reads an Include file. The "Home-Directory,, of the compiler is always used.

{\$IDATA} {\$XDATA} {\$DATA} {\$EEPROM} Variables area

(\$R+/-) Range Check of arrays and strings {\$S+/-} Stack Check

The compiler generates assembler code, which has to be assembled with the included assembler.

The system contains a very comfortable project administration, IDE and Editor. Compiler and IDE both have it's own context-sensitive online-help.

Low-Cost simulators or emulators of several manufacturer are supported on HLL level

Free Demo Version

Prices Fullversion incl. Manuals DM 750.- +MwSt \$470.- + ship

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