Proton Amicus Compiler

Commands and Directives
Proton Amicus18 Compiler

Adin
Asm-EndAsm
Box
Branch
Break
Bstart
Bstop
Brestart
BusAck
Busin
Busout
Button
Cali
Cdata
Circle
Clear
ClearBit
Call
Circle
Clear
ClearBit
Config_Start
Counter
Cread
Cursor
Cwrite
Dec
Declare
DelayMs
DelayUs
Device
DtmFOut
Edata
Enable
End
Eread
Ewrite
For...to...Next
FreqOut
GetBit
GoSub
GoTo
HbStart
HbStop
HbRestart
HbusAck
Hbusin
Hbusout
High
Hpwm
HRsin
HRsout
Hserin
Hserout

Read the on-board Analogue to Digital Converter (ADC).
Insert assembly language code section.
Draw a square on a graphic LCD.
Computed GoTo (equiv. to On..GoTo).
Exit a loop prematurely.
Send a Start condition to the I2C bus.
Send a Stop condition to the I2C bus.
Send a Restart condition to the I2C bus.
Send an Acknowledge condition to the I2C bus.
Read bytes from an I2C device.
Write bytes to an I2C device.
Detect and debounce a key press.
Call an assembly language subroutine.
Define initial contents in memory.
Draw a circle on a graphic LCD.
Place a variable or bit in a low state, or clear all RAM area.
Clear a bit of a port or variable, using a variable index.
Clear the LCD.
Set or Reset programming fuse configurations.
Count the number of pulses occurring on a pin.
Read data from code memory.
Position the cursor on the LCD.
Write data to code memory.
Decrement a variable.
Adjust library routine parameters.
Delay (1 millisecond resolution).
Delay (1 microsecond resolution).
Choose one of the two supported microcontrollers: 18F25K20 or 18F25K22
Return the value of a decimal digit.
Create a variable.
Disable software interrupts previously Enabled.
Produce a DTMF Touch Tone note.
Define initial contents of on-board eeprom.
Enable software interrupts previously Disabled.
Stop execution of the BASIC program (Same as Stop).
Read a value from on-board eeprom.
Write a value to on-board eeprom.
Repeatedly execute statements.
Generate one or two tones, of differing or the same frequencies.
Examine a bit of a port or variable, using a variable index.
Call a BASIC subroutine at a specified label.
Continue execution at a specified label.
Send a Start condition to the I2C bus using the MSSP peripheral.
Send a Stop condition to the I2C bus using the MSSP peripheral.
Send a Restart condition to the I2C bus using the MSSP peripheral.
Send an Ack condition to the I2C bus using the MSSP peripheral.
Read from an I2C device using the MSSP peripheral.
Write to an I2C device using the MSSP peripheral.
Make a pin or port high.
Generate a Pwm signal using the CCP peripheral.
Receive data from the serial port using the USART peripheral.
Transmit data from the serial port using the USART peripheral.
Receive data from the serial port using the USART peripheral.
Transmit data from the serial port using the USART peripheral.
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Receive data from the serial port using the USART2 peripheral (if available).
Transmit data from the serial port using the USART2 peripheral (if available).
Receive data from the serial port using the USART2 peripheral (if available).
Transmit data from the serial port using the USART2 peripheral (if available).
Receive bytes from an I²C device with user definable SDA\SCL lines.
Write bytes to an I²C device with user definable SDA\SCL lines.
.Home.ElseIf.Else..EndIf Conditionally execute statements.
 Increment a variable.
 Load a BASIC file into the source code.
 Scan a keypad.
 Make pin an input.
 Read a single byte from a Graphic LCD.
 Write bytes to a Graphic LCD.
 Extract n amount of characters the left of a String.
 Place information into code memory. For access by Lread.
 Draw a line in any direction on a graphic LCD.
 Draw a straight line in any direction on a graphic LCD, starting from the previous Line command's end position.
 Set or Clear a bit of a port or variable, using a variable index.
 Search a constant lookdown table for a value.
 Search constant or variable lookdown table for a value.
 Fetch a constant value from a lookup table.
 Fetch a constant or variable value from lookup table.
 Make a pin or port low.
 Read a value from an Cdata table and place into Variable.
 Read a single or multi-byte value from a Cdata table with more efficiency than Lread.
 Extract n amount of characters from a String beginning at n characters from the left.
 Execute a subroutine using a Software interrupt (Not Recommended).
 Execute an Assembler subroutine on a Hardware interrupt.
 Execute an Assembler subroutine when a Low Priority Hardware interrupt.
 Call a Subroutine based on an Index value.
 Jump to an address in code memory based on an Index value.
 Make a pin an output.
 Receive data from a device using the Dallas 1-wire protocol.
 Send data to a device using the Dallas 1-wire protocol.
 Set Program Origin.
 Read a single pixel from a Graphic LCD.
 Set a single pixel on a Graphic LCD.
 Pull a single variable or multiple variables from a software stack.
 Read a potentiometer on specified pin.
 Display characters on an LCD.
 Measure the pulse width on a pin.
 Measure a pulse width oh a pin. 
 Generate a pseudo-random number.
 Receive and decode Philips Infrared RC5 packets.
 Measure a pulse width on a pin.
 Generate a pulse to a pin.
 Place a single variable or multiple variables onto a software stack.
 Output a pulse width modulated pulse train to pin.
 Generate a pseudo-random number.
 Receive and decode Philips Infrared RC5 packets.
 Measure a pulse width on a pin.
 Generate a block of instructions until a condition is true.
 Re-enable software interrupts and return.
 Continue at the statement following the last GoSub.
 Extract n amount of characters from the right of a String.
 Asynchronous serial input from a fixed pin and baud rate.
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Rsout  Asynchronous serial output to a fixed pin and baud rate.
Seed   Seed the random number generator, to obtain a more random result.
Select..Case..EndSelect Conditionally run blocks of code.
Serin  Receive asynchronous serial data (i.e. RS232 data).
Serout Transmit asynchronous serial data (i.e. RS232 data).
Servo  Control a servo motor.
Set    Place a variable or bit in a high state.
SetBit Set a bit of a port or variable, using a variable index.
Shin   Synchronous serial input.
Shout  Synchronous serial output.
Sleep  Power down the processor for a period of time.
Snooze Power down the processor for short period of time.
SonyIn Receive Sony SIRC (Sony Infrared Remote Control) data from a predetermined pin.
Sound  Generate a tone or white-noise on a specified pin.
Sound2 Generate 2 tones from 2 separate pins.
Stop   Stop program execution.
Str    Load a Byte array with values.
Strn   Create a null terminated Byte array.
Str$   Convert the contents of a variable to a null terminated String.
Swap   Exchange the values of two variables.
Symbol Create an alias to a constant, port, pin, or register.
Toggle Reverse the state of a port’s bit.
ToLower Convert the characters in a String to lower case.
ToUpper Convert the characters in a String to UPPER case.
Toshiba_Command Send a command to a Toshiba T6963 graphic LCD.
Toshiba_UDG Create User Defined Graphics for Toshiba T6963 graphic LCD.
UnPlot Clear a single pixel on a Graphic LCD.
Val    Convert a null terminated String to an integer value.
VarPtr Locate the address of a variable.
While...Wend Execute statements while condition is true.
Xin    Receive data using the X10 protocol.
Xout   Transmit data using the X10 protocol.