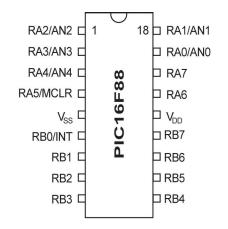
PIC Information

The PIC programs include 'equate' statements that define the following labels:

Label	Description
PORTA	input / output port A
PORTB	input / output port B
TRISA	the control register for port A
TRISB	the control register for port B
STATUS	the status register
INTCON	the interrupt control register
W	Destination d = W, result stored in working register
F	Destination d = F, result stored in specified file register
RP0	the register page selection bit 0
Z	the zero flag status bit
GIE	the global interrupt controller bit
INT0IE	the external interrupt enable bit

Pinout for 16F88 PIC IC:



List of commands

Mnemonic	Operands	Description			
addlw	k	Add working register to literal k			
andlw	k	AND working register with literal k			
bcf	f, b	Clear bit b of file register f			
bsf	f, b	Set bit b of file register f			
btfsc	f, b	Bit test bit b of file register f, skip if clear			
btfss	f, b	Bit test bit b of file register f, skip if set			
call	label	Call subroutine at label			
clrf	f	Clear file register f			
comf	f, d	Complement file register f			
decfsz	f, d	Decrement file register f, skip if zero			
goto	label	Unconditional branch to label			
incf	f, d	Increment file register f			
iorlw	k	Inclusive OR working register with literal			
movf	f, d	Move file register f			
movlw	k	Move literal to working register			
movwf	f	Move working register to file register f			
nop	-	No operation			
retfie	-	Return from interrupt service routine and set global interrupt enable bit GIE			
return	-	Return from subroutine			
sublw	k	Subtract W from literal			

Number system notation

Decimal	d'153'
Hex	h'99'
Binary	b'10011001'

Structure of the INTCON register

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
GIE	PEIE	TMR0IE	INT0IE	RBIE	TMR0IF	INT0IF	RBIF

Structure of the STATUS register

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
IRP	RP1	RP0	TO	PD	Z	DC	С