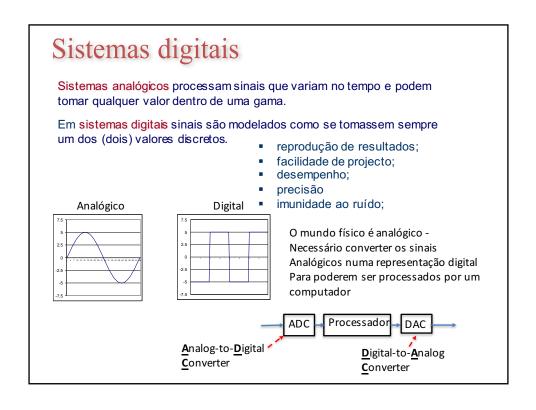
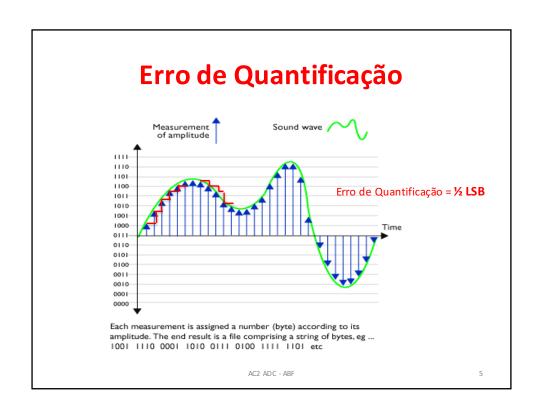
Interfaces com o exterior: CONVERSÃO ANALÓGICO-DIGITAL

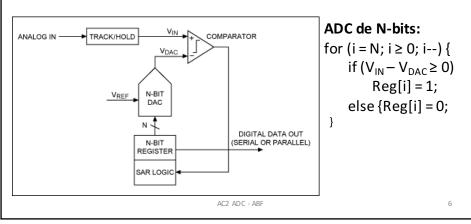


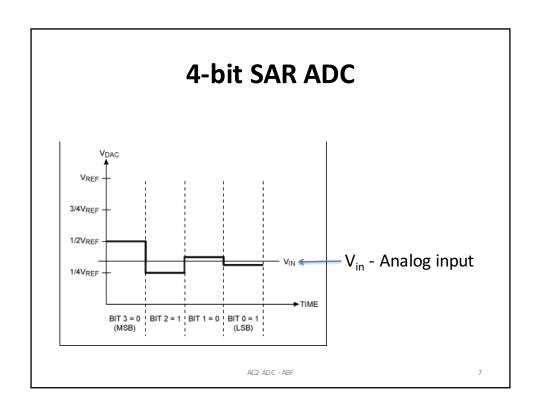


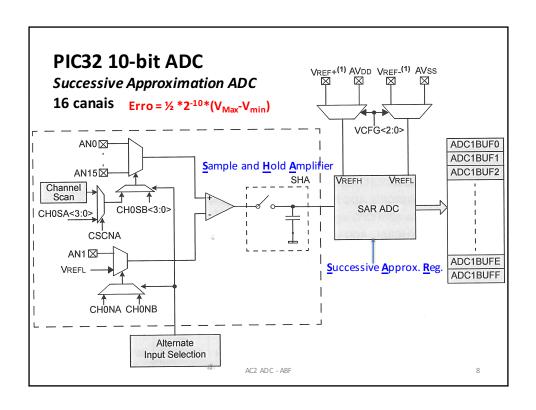


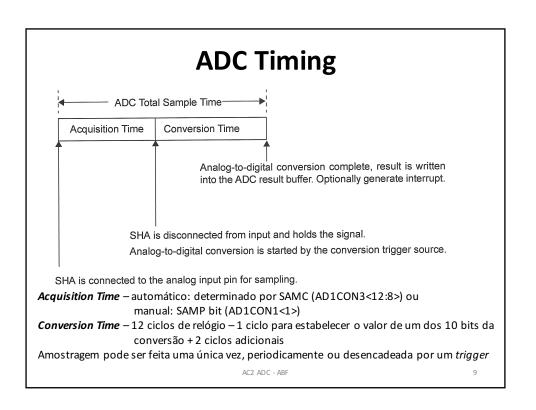
Conversão por aproximações sucessivas **S**uccessive **A**pproximation **R**egister **ADC**

Tempo de conversão = N ciclos de relógio (ADC de N-bits) Começando pelo bit mais signficativo, em cada ciclo fica estabelecido o valor de 1 bit da conversão









Registos de Controle da ADC

AD1CON1: ADC Control Register 1
 AD1CON2: ADC Control Register 2

• AD1CON3: ADC Control Register 3

The AD1CON1, AD1CON2 and AD1CON3 registers control the operation of the ADC module.

• AD1CHS: ADC Input Select Register

The AD1CHS register selects the input pins to be connected to the SHA.

AD1PCFG: ADC Port Configuration Register^(1,2)

The AD1PCFG register configures the analog input pins as analog inputs or as digital I/O.

AD1CSSL: ADC Input Scan Select Register⁽¹⁾

The AD1CSSL register selects inputs to be sequentially scanned.

AC2 ADC - ABF

Registos da ADC do PIC32

Table 17-1: ADC SFR Summary

Name		Bit 31/23/15/7	Bit 30/22/14/6	Bit 29/21/13/5	Bit 28/20/12/4	Bit 27/19/11/3	Bit 26/18/10/2	Bit 25/17/9/1	Bit 24/16/8/0
AD1CON1 ^(1,2,3)	31:24	-	-	-	_		_		
	23:16	_	-	-		_			_
	15:8	ON	_	SIDL	— — FORM<2:0>				
	7:0	SSRC<2:0>			CLRASAM	_	ASAM	SAMP	DONE
AD1CON2 ^(1,2,3)	31:24	_	_	. —	_	_	_	_	_
	23:16	_	_	_	-		_		_
	15:8	VCFG<2:0>			OFFCAL	_	CSCNA	_	
	7:0	BUFS	_		SMPI<3:0> BUFM ALTS				
AD1CON3 ^(1,2,3)	31:24	_	_	_	_	_	_	_	
	23:16	_	_	_	_	_			_
	15:8	ADRC	_	_	SAMC<4:0>				
	7:0	ADCS<7:0>							
AD1CHS ^(1,2,3)	31:24	CH0NB	_	_	_	CH0SB<3:0>			
	23:16	CH0NA	_	_	_	CH0SA<3:0>			
	15:8	_	_	_	_	_	_	_	_
	7:0	_	_	_	_	_		_	_
AD1PCFG ^(1,2,3)	31:24	_	_	_	_	_	_		
	23:16	_	_	_	_	_	_		_
	15:8	PCFG15	PCFG14	PCFG13	PCFG12	PCFG11	PCFG10	PCFG9	PCFG8
	7:0	PCFG7	PCFG6	PCFG5	PCFG4	PCFG3	PCFG2	PCFG1	PCFG0

Legend: — = unimplemented, read as '0'.

AC2 AE

AC2 ADC - ABF

11