Intoway -02

MES (18C54A)

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Na.

Openeral Computing Systom

- 1. Acombination of generic hardenare & grand pypose operating system (cypos) jos someting a varialis of applications.
- 2, Applications core alter by the user.
- 3. Parystmance is the key deciding factor in the Selection of the System.
- A. Less par all tablated towards H. seduced of operating power suguinements.
- 5. Need not be dotoermine in Executé betamour. presponse grequirements one not time outilled.

Embedded System.

- 1. Accombination of Special purpose tradecord various of Special of Special applications.
- 2. Applietin is notaltited by End-user, piero mied.
- 3. Application specific plequirement like payornance, power, memory usage.
 - H. highly tailand to

 is. take advantage of

 the power saving

 modes supported by

 the bosonare Ethers.
 - S. Execution tetrarious is deterministic for contain type of combodded Systems like 'Heard Real Trime' Systems.

En! Data arquisition systems like ADC, SEADA. Third Generation! Uses 32 bit microprocessor & 16 bit mirero controller. Donain specific procuron & controller, on used, Exi. loboties,

Jourth generation! uses by bit and microperossor & 30 bit mices tontrioller, The concept of system on chip, multi were processors exolved. Highly complex & very powerful. Ext. Smoot phone,

Types of Embedded System based on comparately & payourous 1. Small Scale! Embedded Systems which one simple in application needs Enthe peryotmance parameters are not

time vitical, They are built around love orst &

payornance 18 09/16 bit microphocassors / Contabollary,

En! Elaiteone toy.

2. Medium Scale! Embedded System which are Stightly Complex in hordware & journeur requirements. Medium - Scale Embedded System one usually built

moneyed miller brushes

Lotye. Sale! - or complex Embedded System; which involve highly complex hardware & picunware. They are used in mission british applications demording high performance.

A Good Soff Shyter is a digited concert that can Shift a dated word by a specified number of wild wishout the use of any sequential logic, only contractional logic, i.e.it tishwently provides a binarry operation.

A barred Shipter is often used to shipt and questiments.

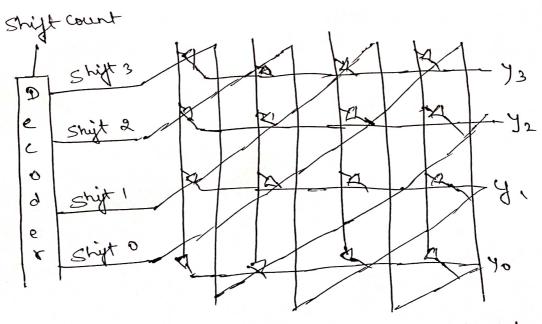
A barred shipter is often implemented as a casadas

of parallel 8x1 multiplexers, For an 8 oit parallel shipter,

tion intermed att eigned, are used which shipter by

pour E two bits or parses the same data based on the

value of S[1] E S[1].



I bit ours bor book Shipted.

Ha.

Ab,

Swap institution!

SWP-Swap a word between membry and a legister.

SWPB- Swap a bite between membry and a signific.

This instruction is a special are of a load-state inthis

ction. It is an attinue approached, It reads and writes

o statem in Same but operation, be also property other

what instructions from allering the bus writtle swap is

Copheresson instructions.

Compliances on instanditions are used to extend instantion Set. This riceude data processing, legister transport & Memory tolorspear.

OP - aprocessor pata Professing.

MRC / MCP - Coprocessor Register Franzer.

LDC - Oprocessor Memory Dranger.