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FACULTY OF ENGINEERING & TECHNOLOGY

BCS -504 Computer Graphics & Multimedia

Lecture-03

Mr. Dilip Kumar J Saini
Assistant Professor
Computer Science & Engineering

OUTLINE

- DISPLAY PROCESSOR
- BLOCK DIAGRAM
- DISPLAY FILE MEMORY & DISPLAY CONTROLLER
- DISPLAY GENERATOR & DISPLAY CONSOLE
- DISPLAY DEVICES

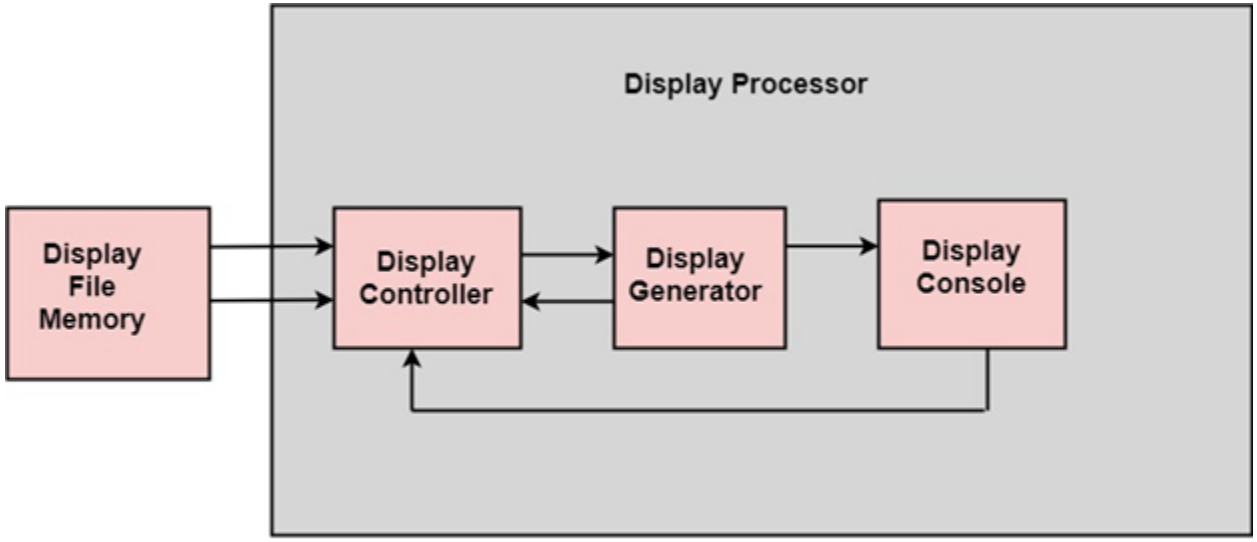
DISPLAY PROCESSOR

It is interpreter or piece of hardware that converts display processor code into pictures. It is one of the four main parts of the display processor

Parts of Display Processor

1. Display File Memory
2. Display Processor
3. Display Generator
4. Display Console

Block Diagram



Block diagram of Display System

Display File Memory & Display Controller

Display File Memory: It is used for generation of the picture. It is used for identification of graphic entities.

Display Controller:

It handles interrupt

It maintains timings

It is used for interpretation of instruction.

Display Generator & Display Console

Display Generator:

It is used for the generation of character.

It is used for the generation of curves.

Display Console: It contains CRT, Light Pen, and Keyboard and deflection system.

The raster scan system is a combination of some processing units. It consists of the control processing unit (CPU) and a particular processor called a display controller. Display Controller controls the operation of the display device. It is also called a video controller.

Display Devices

The most commonly used display device is a video monitor. The operation of most video monitors based on CRT (Cathode Ray Tube). The following display devices are used:

1. Refresh Cathode Ray Tube
2. Random Scan and Raster Scan
3. Color CRT Monitors
4. Direct View Storage Tubes
5. Flat Panel Display
6. Lookup Table

Multiple Choice Question

MUTIPLE CHOICE QUESTIONS:

Sr no	Question	Option A	Option B	OptionC	OptionD
1	Display devices are also known as…..	output devices	input devices	display devices	None
2	CRT consists of two pairs of parallel plates which are ……..deflection plates.	nonvertical and nonhorizontal	vertical and horizontal	vertical and nonhorizontal	nonvertical and horizontal
3	Which deflection plates is control vertical and horizontal deflection respectively?	vertical and horizontal	nonvertical and nonhorizontal	vertical and nonhorizontal	nonvertical and horizontal
4	Simulation and animation, Use of graphics in simulation makes ……... more realistic	mathematic models	mechanical systems	both	none
5	In Cartography, Computer graphics is also used to represent ……. etc	geographic maps	weather maps	oceanographic charts	all of these

REFERENCES

- http://www.engppt.com/search/label/Computer%20Graphics