

12 Lecture - CS401

Important Subjective

1. **What is the purpose of BIOS Video Services?**

Answer: BIOS Video Services allow the computer's BIOS to interact with the video display hardware, enabling functions such as initializing the video hardware, changing the video mode, and drawing characters and graphics on the screen.

2. **What are some common video modes supported by BIOS Video Services?**

Answer: Some common video modes supported by BIOS Video Services include 640x480, 800x600, 1024x768, and 1280x720.

3. **How is the video mode changed using BIOS Video Services?**

Answer: The SetMode function is used to change the video mode using BIOS Video Services.

4. **What is the purpose of the DrawString function in BIOS Video Services?**

Answer: The DrawString function is used to draw text on the screen using BIOS Video Services.

5. **What is the function of the ClearScreen function in BIOS Video Services?**

Answer: The ClearScreen function is used to clear the screen using BIOS Video Services.

6. **How does BIOS Video Services interact with the operating system?**

Answer: BIOS Video Services interact with the operating system by providing a set of functions that the operating system can use to communicate with the video display hardware.

7. **What is the purpose of initializing the video hardware using BIOS Video Services?**

Answer: Initializing the video hardware using BIOS Video Services ensures that the hardware is ready for use and that the correct settings are configured.

8. **How can BIOS Video Services be used to draw graphics on the screen?**

Answer: BIOS Video Services can be used to draw graphics on the screen by using functions such as DrawPixel, DrawLine, and DrawRectangle.

9. **What is the role of the BIOS in the boot-up process?**

Answer: The BIOS is responsible for initializing the hardware, including the video display hardware, and loading the operating system into memory.

10. **How does BIOS Video Services help in the troubleshooting of display issues?**

Answer: BIOS Video Services can be used to test and diagnose display issues by providing functions to change the video mode, draw graphics and text, and scroll the screen.