Theneral purpose systems are versatile, they aren't always folly optimised to perform specified tasks.

Tembedded systems are designed to perform a small number of tasks efficiently. An example of an embedded system is a placemaker, a small device placed inside a person that monitors and regulates

parameters General purpose Embedded system.

1. puppose * multipuppose * single functione

a. Size of * Big

system

* Less

3. power consume * morre

4 cost of system * costly. * cheap

4 Cost of system * costly. * cheap

5. Memory * Higher * Lower memory

6. per formance * fast & better * fixed rontine

performance required

Tuselinterface * key board, display * Button, mouse, touch screen sensors, (gas ir).

2) what age device drivers:SOI- A device driver is a Special kind of Softwage program that untrols a specific hardware device attached to a computer perice drivers eye essential for a Computer to work properly.

Eg: - A printer driver tells the printer in which format to print after getting instrunction from as. Similarly, A sound card drive is there due to which is and as data of the MPB file is converted to audio signals and you enjoy the music.

Purpose

The main purpose of device drivers to provide abstraction by acting as a translator between a hardware device and the applications or operating systems that we it.

- O figstly an the code the user write is translated into a Set of 1's and o's by a complier.
- Voltages, or 1's and 0's.
- ma cycle.
- -) First the hardware accesses the memory to retrive on Instrunction.
- In computer doesn't actually learn the language, instead it parses the language and does what the lines of whe tell it to do.
- To break it down further, the cpu is at the heart of the computer,
- which is language consisting of one's and zeroi.

- 1 Diffyence between as and RTOS.
- =) In general, an operating system is responsible for managing the hardwaye resources of a computer and hosting applications that Jun on the computer
- ⇒ In RTOS performs these tasks, but is also specially designed to Jun applications with very precise timing and a high degree of reliability.

complexity

- =) In RTOS Light weight and designed for minimal overhead and reduced complexity.
- > In os more complex supporting a wide variety of applications and hardwaye configurations.

Exaples

=) RTOS -> free RTOS, VX WORLS, GNX, CLOS.

0s - window, macos, linux and unix.

Cast:-

- = RTOS High WSF
- 7 05 low cost

Determinism:-

- RTOS Deterministic excellion with guranteed timing and deadlines.
-) 05 primarily focus on multitasking and resource shaping.