# Process means in an OS

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*Abstract*—In this paper discuss with the OS process. These process ae two types there are heavy weight process on the other hand are in light weight process. But the heavy weigh process are independent resources. but light weight process means thread. Because it is processing same memory and the same resources .it dependent to the process. it is told as multi-tasking and multi-threading. multi-tasking is the network and words .one ask to another one task at the same time. multi is the independent of process and does not no like between one process to another process.it is individually processed. so commonly told as this is process. heavy weight process multi – tasking on the other hand light -weight process multi- threading. the heavy weight process is the OS means – process.

*Index Terms*—OS, light weight, heavy weight, process, thread.

## I. INTRODUCTION

The heavy weight process in an OS. Is normal process. Each and every process the task independent is separate process one another. because it is separate memory and separate resources. but it has low performance. Because it is run between so many resources .it is available in an OS as a process.

The light weight process is the tread of the process. because it is link between the each and every process .so it is called multi-threading. connected one another relation between the same resources and memory also utilize.so it is performance are fast compared to the heavy weight process.

In OS are called commonly process the process are can be executed two types. that is heavy weight and light weight process. But user commonly told as process.

Multi-tasking is the independent of process strong isolation preventing and one process from directly interfacing with another memory or resources. Running different application (like web browser and text editors and etc.….)

Multi- threading performing the multi task with in a single application (like word processor handling text input, background spell check and saving the documents concurrently sharing the process space.

Process means is an OS- heavy weight

Thread means is an OS – light weight.

Operating system means:

That is boot the system or start the system. which manage the software and hardware resources .it act as interchangeably between the user and computer. Enabling via interact with the machine and application.

It is providing a user-friendly interface (graphical and command line) that allow user to interact with the computer without needing to understanding and underlining hardware language.

The OS provide platform for other application (like web browser word processor etc.….) to run and performs their task, the common operating system includes windows, mac OS, Linux and android)

The operating systems is foundation up on which all others software used instruction to build.

GUI (graphical user interface):

GUI is an operating system allow user to interact with the configuration using viral element like icon, windows and menu rather than the text-based command its user-friendly way to navigate and control way manage and control the function.

GUI visual reference of the operating system making its more intuitive for user to interact with the computer. GUI simply the user experience, making it easier to learn and user computer even though without technic expertise.

CUI (character user interface):

CUI are also CLI (command line interface). It is text-based way of user interact with an operating system. Instead of using graphical elements. like windows, icon, user typed command in to terminal MS-DOS (micro soft disk operating systems. (Older various of

the UNIX based systems then system is typically used when graphical interface is unnecessary a when remote access through a terminal is required.

CUI stands for command line user interface it is way for use to interact with the computer by typically command in to a text based technical or console instead of mouse and icon user type command using the keyboard with the text-based output

PROCESS vs THREAD:

Both process and thread are counted as impotent term. The process is the program under action whereas the smallest segment of the instruction. that can be handled independently by a schedule lets analysis the different between process and thread.

WHAT IS PROCESS:

When processor the execution then it is known as process, basically process allow you to execute all the relevant task in the program in this operating system help you deep plan and schedule and terminate the process used by the CPU.it is not affect operation of another process

example

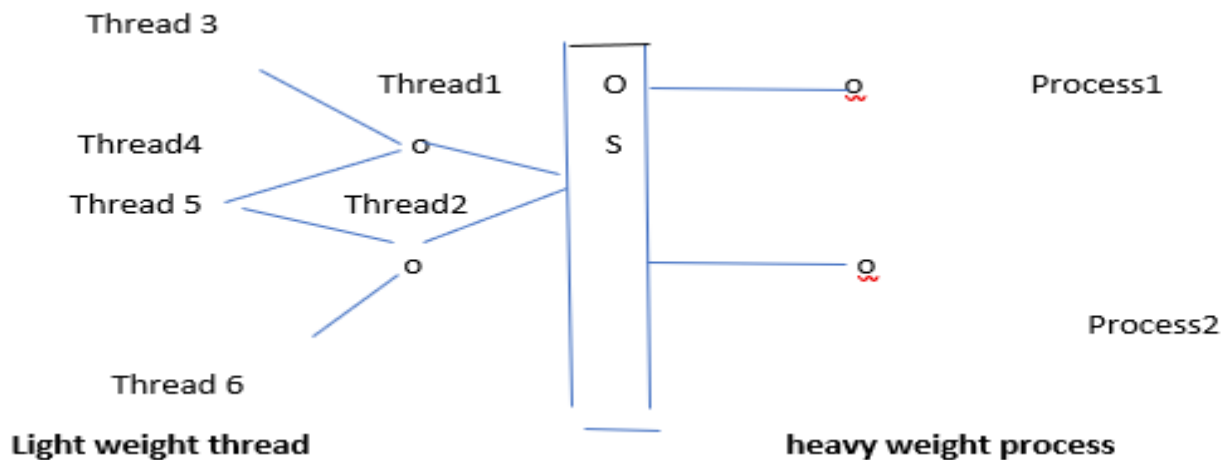Inter process-communication (IPC), independent.

WHAT IS THREAD:

Thread is the smallest segment of instruction that can be handled by a scheduled it will affect the execution of another process

Example:

Shard memory, dependent.

## II. OPERATING SYSTEM ARCHITECTURE



Light weight thread     heavy weight process

## III. CONCLUSION

In an OS the process means thread and process. there are two types that type is in depended execution or dependent execution. because it has heavy weight and light weight process. The heavy weight process commonly told as process. .in light weight means thread. but we are told both are process.

In an OS the process means and thread means are independent executed or dependent execution. because it has the heavy weight and light weight process. the heavy weight process commonly told as a process. In light weight weight process means thread which is shared the memory with the same resources. So, it performs is fast compare to the heavy weight. because it is separate resources and menus it will take more

than two process. In OS process means heavy weight and light weight two process and also called process on the other hand thread it is not a process there are two different activities either process or thread. but commonly told process is heavy weigh only.

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