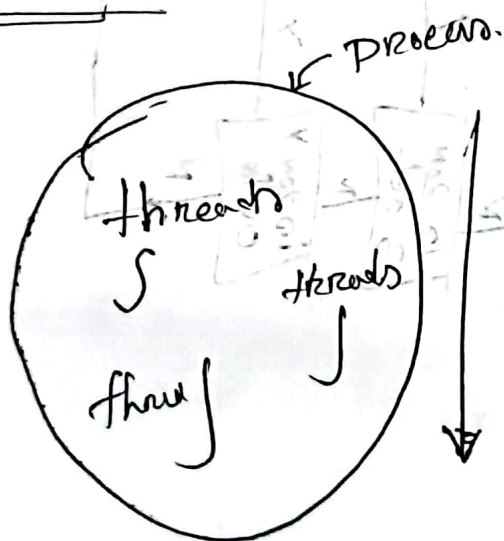# process of threads.

In computing, a process is an instance of a computer program that is being executed. Contains the program code and its current activity.

[Compute program को process এর execute করে (6h)]

A threads of execution is the smallest sequence of programmed instructions that can be managed by an OS. planner.

[যেই ছোট্টো instruction এর OS planner execute করে]

A process may be made up with multiple threads of execution that execute instruction concurrently

আর process made up with

Corresponding threads.

↙ Process.

threads
}
threads
}
thre }

L1 and L2 Cache

L1 It is some kind of memory which is build into the some cpu, its place cpu first tries to access. this is built into mp. [�, cup কে 1st tries এবং access করে]

L2 It is another memory but instead of feeding cpu. Directly, this feeds the L1 chache [এটা আরেক memory কিন্তু instead of feeding cpu সরাসরি, this feeds the L1 chache]

L2 L2 is on a seperate chip that can be accessed. more quickly than the longer main memory. Memory size of L2 in. 1024 kb [seperate chip এর main এর তুলনায় দ্রুত (2য় 1st accessed de.)]

Core 2	Dual Core
It usually refers to a series of processor developed by Intel.	It generally refers to a specific type of processor, where 2 processing cores on a single chip.
• here 6 MB of L2 cache memory	• here 3 Mb of L2 chacue memory
• Core 2 is better performer then dual core	• Previous procueon comparison, Dual corei beat
• Example : Intel core 2	• Example : Intel G530 dual con

Features of Intel I3, I5, I7 . . .

I3	I5	I7
• Entry Lvl processor	• Mid Lvl processor	• High-end processor
• 2-4 cores	• 2-4 cores	• 4 cores
• 4 threads	• 4 threads	• 4 threads
• 3-4 mb chace	• 3-8 mb chace	• 4-8 mb chace
• 32 nm Silicon	• 32-4g nm silicon	• 32-45 nm silicon

⊛ **multitasking** : It is about doing multiple tasks at the same time on a single device. It involves

∗ **On multiprocessing** :

Example : Computer might be running web browser, play music, and downloading.

multiuser : It is about multiple users interacting with the same system independently.

Ex- a server of os when multiple users are login and perfrom tasks.

Multithreading : It is about multiple threads within single process to run : Concurrently (একসাথে).

Bit slicing : Bit slicing is a technique for constructing a processor from modules of smaller bit width.

Its usually consist of An (ALU) of 1,2,4,8 bits And control lines.

Example : Consider 4 bit binary : 1101.

In bit slicing this number could be processed as 4 separate bits (1,1,0,1) and operation can be performed on each bit individually.

\# Embedded system is a dedicated Computer system, Integrated into device for specific function.

\# Arithmatic processor (ALU) is a component of cpu which Performing Arithmatic and logical operation.

\# Itanium processor is a 64 bit MP, designed for high performance computing.

\# Merced processor is a initial processor of the Itanium, represent a significant development 64 bit computing.

Embedded Microprocessor

It is a MP that used in embedded system. It is usually smaller, and is to consume less power.

Coprocessor : It is a special set of circuits in MP that designed to perform some other specialized tasks more quickly than some MP could perform the task smoothly.