

Software Crisis



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These are lots of meaning of Term Software Crisis.

First of all we go in History and what was the scenario at that time.

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Hardware Oriented world

There was more focus on the hardware than software as people were more focusing on that how instructions can be executed fast. Not on that how bugs should be removed frequently.

Cost : Hardware Vs Software

Rapid increase in software cost and rapid fall in hardware cost need more resources and well defined and systemic models for software development.

Inexperience Developer :

Developers were hardly one year of experienced old so quite difficult for them to feel full code based need.

Failures in Big project ***

Big failure in project cost govt billions of dollars like

↳ **The Northeast Blackout in 2003** has been major power system failures in the history of North America which involves 100 power plants. 50 million customers faced problem, \$6 billion financial loss.

- 2) **Year 2000 (Y2K)** refers to the widespread snags in processing dates after the year 2000. In 1960-80 when shortened the 4-digit date format like 1972 to a 2 digit format like 72 because of **Limited Memory**. because of that 2000 was shortened to 00. **Millions Dollar were spent to handle this problem.**
- 3) **Arian-5 space Rocket** in 1996, developed at cost of \$7000 million dollars over a period of 10 years was destroyed within less than one ~~million~~ minute after its launch. as there was **Software bugs** in Rocket Guidance System.
- 4) In 1996, US banks credited accounts of nearly 800 Customers with **\$ 924 Lacs**. This problem was due to main programming bug in the banking system.
- 5) 1991 During **Gulf War**, the USA used **Patriot Missiles** as a defense against Iraqi Scud missiles. However, the Patriot failed to hit the Scud many times which cost life of **28 USA Soldiers**. In inquiry it is found that a small bug had resulted in **Miscalculation of Missile path.**

- **User Changing Requirement**

As user changes its Requirement slightly as world and technology changing rapidly.

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So What is Software Crisis ?

The difficulty of writing the code for a Computer Program which is **Correct and understandable** is referred to as **Software Crisis**.

OR

Software Crisis is also referred to the **Inability** to hire enough **Qualified Programmers**.



That is Beginning of
SOFTWARE

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