

# Unit-4

## Real time system testing

Time dependent, async

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# To conduct RTT

- Find Conventional test cases
- Find Event handling
- Check Timing of the data
- Identify Parallelism of the tasks (process)
- Same data with different system may lead error
- Relationship between hw device and sw ,  
example: xerox copier, jamming, toner low, RESET, DARKEN state

# Steps on RT testing (xerox m/c)

- Task testing (uncovers errors in logic)
- Behavioral testing (consequence of external events, BVA, Eq. partition)
- Intertask testing (time related synch. Errors, msg queue, data store error)
- System testing (complete sw+hw testing)

# Assess following characteristics

- Are interrupt priorities properly assigned and properly handled?
- Is processing for each interrupt handled correctly?
- Does the performance (processing time) of each interrupt-handling procedure conform to requirements?
- Does the high volume of interrupts arriving at critical times create problems in function or performance?

# THANK YOU

