



Testing Software Quality Characteristics – Part 1

Stress Testing

Objective



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Utilize strategies
for stress testing

Stress Testing



| Verify the behavior of the system meets its requirements when its resources are saturated and pushed beyond their limits.

| Attempt to find the stress points and ensure the system performs as specified

Analogies



| Human stress test

| Bridge stress test

| Automobile stress
test

Stress Testing Steps



1. Identify stress points

- Work with developers and architects
- Identify potential bottlenecks

2. Develop a strategy to stress the system at points identified in Step 1

- Often requires load generation tools

3. Verify that intended stress is actually generated

- Stress testing strategy may be ineffective
- System performance may be better than expected

4. Observe behavior

- Verify stress related requirements are met
- Ensure functional correctness

Summary

