1: Conformance_Test

conformance test is a software testing technique used to certify that the software system complies with the standards and regulations as defined by specification.

conformance test is used to determine how a system under test confirms to meet the specification standard.

2: Comformance Test Includes:

1. Performance test
2. functions test
3. Robustness test
4. Interoperability test
5. Behavior of system test

3: Why do we need Conformance Testing?

1. To check for the system's requirements fulfillment.
2. To check the development, design and evaluation as per specification.

4: What do we need to test?

the standards/scope of specifications

5: when to perform Conformance Testing?

when the specification require the consistency, completeness and correction with the code.

6: How to perform Conformance Testing?

1. Analyzing requirements specification
2. Preparing test plan, selecting test tools and test suite
3. Preparing test cases and its purpose, design testing procedures
4. Create documentation for prepared test designs
5. Check necessary validations
6. Adapting relevant testing policies and certifications

7: What the purpose of The Conformance Testing?

1. ensure efficiency

2. ensure performance

3. avoid future risks for a software application

8: Advantages of Conformance Testing

1. Assure the proper implementation of specifications

2. Assures portability and interoperability

3. Provides appropriate utilization of standards

4. Make sure that interfaces and funcitons are working as expected.

9: Disadvantages of Conformance Testing

1. tested with suitable methodology

2. Categorizing specifications

3. predefining values

10: Conformance Testing Summary

1. Conformance testing used to check whether the system meet the specification requirement

2. Test tools and Test Methodology and Test program are critical for Conformance testing

3. Assuance of Standard utilization and interoperability

11: Vulkan Conformance Testing

1. Vulkan Conformance Testing ensure whether the code APIs are meet the standards

2. Vulkan Conformance Testing ensure whether the code APIs will function correctly even in the

3. Comprehensive conformance testing is required when release new features

12: Task sub-group(TSG)

1. TSG is accountable of TSG operations and deliverables

3. TSG meet requlary

4. TSG meet regularly to discuss progress and issues

5. TSG has a defined/rigorous development process which uses issue trackers,

code reviews, continuous integration

13: TSG(Task Sub Group) Chair Assist RESPONSIBILITIES

1.Assisting TSG chair: assist him to ensure timely deliveries

2. Ensure the issue are being updated

3. Ensure the status is being recorded

4. Code reviews are happening

5. Changes are being merged

6. Support TSG process and ensure the process being followed

14: Maintaining Vulkan CTS Private/Public repositories RESPONSIBILITI

1. Vulkan CTS has a private repository

2. Vulkan CTS will mirror private repository to public repository

3. Ensure both private/public repository are up to date

4. Ensure permissions are assigned correctly

5. Changes are correctly propagated through release branches

6. Branching strategy is being followed

7. Ensure Khronos Gerrit Server is being regularly upgraded

8. Request Khronos webmaster to regular upgrade Gerrit

9. Administrator rights for khronos Gerrit

10. Maintainer rights for VK-GL-CTS repository on Github

15: Maintaining CTS tools and other repositories

1. TSG has CTS tools repositories(public/private)

2. TSG CTS tools includes integration scripts and conformance submission verification scripts

3. Maintain the tools repositories and kept up to date

16: Maintaining CTS continuous integration(CI)

1. Monitor TSG Jenkins and Docker instances to make sure no issues preventing CI from running

2. CTS CI(Continuous integration) ensure CTS can be built for a number of Linux distributions

3. CTS CI used to run automated conformance submission verification.

4. Extend CTS CI to execute other automatable tasks

5. Ensure Jenkins/Jenkins plugins/Docker being requlary upgraded.

6. Administrator rights for Jenkins/Docker instances

17: Maintaining CTS documentation

1. TSG maintain public/private wikis/README written in Markdown

2. Wikis/README written by Markdown contain build instructions/description of internal process,

3. Make sure to keep these doc up to date

18: Managing CTS Releases and release schedule

1. TSG publishes one major Vulkan CTS release every 3 months

2. TSG publish a major release for each new API version

3. TSG deprecate/withdraw certain erleases according to the agreed policy

4. Ensure all above 3 schedules happens on time

19: Managing Contractors

1. Khronos has a team of external software developers

2. Atten Weekly calls with developer team, review progress and reports,

assign tasks, resolve blocking issues, and interact with the team using email/khronos chat