Haxors Chrono Timer Test Plan

Test Plan Identifier

Haxors Chrono Timer Test Plan 1.0

References

Documents that support this test plan include the Sprint Release documents.

Introduction

This test plan for the Chrono Timer testing supports the following objectives:

1. To define the tools to be used throughout the testing process.
2. To communicate to the items to be tested and set expectations around schedule.
3. To define how the tests will be rated.

Test Items

The systems to be tested include the commands that can be used with each sprint release.

The systems should be tested on both a Windows machine.

Features to be Tested

Features to be tested include the following:

- POWER - (if off) Turn system on, enter quiescent state
- POWER - (if on) Turn system off (but stay in simulator)
- EXIT - Exit the simulator
- RESET - Resets the System to initial state
- TIME - Set the current time. Default time is the host system time
- TOG - Toggle the state of the channel
- CONN - Connect a type of sensor to channel = {EYE, GATE, PAD}
- DISC - Disconnect a sensor from channel

- EVENT - IND | PARIND | GRP | PARGRP
- NEWRUN - Create a new Run (must end a run first)
- ENDRUN - Done with a Run
- PRINT - Print the run on stdout
- EXPORT - Export run in XML to file "RUN"
- NUM - Set as the next competitor to start.
- CLR - Clear the competitor from queue
- SWAP - Exchange next two competitors to finish in IND
- DNF - The next competitor to finish will not finish
- TRIG - Trigger channel

Features Not To Be Tested

The simulated hardware will not be tested as this is only a simulated interface and the physical hardware is in production.

Approach

Tests will be conducted per the documented test cases stored in Tests in Chrono Timer. The members will create test runs for each command. The test will execute in Tests and each case should be marked as Pass / Fail. Leave notes on actual results and any other relevant details when possible.

When tests are marked as Fail, make sure to make note of it as a member can come back to work on the bug.

Once complete, please notify other members, so they know tests have been completed and know they may need to back and fix some items.

Pass/Fail Criteria

All core functionality of the systems should function as expected and outlined in the individual test cases. 95% of all test cases should pass and no failed cases should be crucial to the end-user's ability to use the application.

Test Deliverables

Upon completion, the test run results will be saved in various run outputs.

Testing Tasks

The following activities must be completed:

- Test plan prepared.
- Functional specifications written and delivered to the testing team

- Environment should be ready for testing
- Perform the tests.
- Comment test results and have an output of test results.

Responsibilities

Members shall partner up on the code that they worked on and discuss how it should be tested. They will then implement a test case. Another member in the group shall run the tests and return the results to everyone, so that items can be fixed, if any.

Schedule

Testing will take place towards the end of each sprint release. And each round of testing should last 2 days.

Risks And Contingencies

If testing is not completed towards the end of sprint releases, it could delay bug fixes and a sprint release could contain bugs. If this happens, future sprint releases would be pushed back and eventual affect the launch date.