Abstract

A diagnostics program that helps the user find out why their computer won’t boot correctly

Computer diagnostics

Diagnostics in CLIPS

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# How to open Computer Diagnostics

Simply load Computer Diagnostics.CLP as a construct in the CLIPSIDE program

# How does Computer Diagnostics work?

Computer Diagnostics starts with a single deffact. This can be checked by entering (facts) in CLIPSIDE. This fact is the starting fact, which will generate other facts depending on input from the user.

The user will have to answer a set of questions with Y(yes) or N(no) until an estimated conclusion to solve the problem has been reached. Depending on the user’s answer, being Y or N, CLIPS will assert a new fact to the fact list. Once the new fact has been asserted, it will fire another defrule, which will do the same, until a conclusion is reached.

As the user answers a question, CLIPS will write all of the process states thus far traversed into the ErrorStates.dat file. The user can use this file to determine which path the user has taken down the diagnostics tree.

Once a conclusion has been reached, the user will be notified of steps to be taken which can help solve the problem. CLIPS will also save all of the facts asserted during the process to a LogFile.txt, the log file is used to keep track of all facts generated by the end of the program.

# How to use Computer Diagnostics

After loading Computer Diagnostics as a construct in CLIPS, the user must reset the program, by pressing ctrl + R, or by typing (reset) in CLIPSIDE.

After resetting the program, the user can run the program by pressing ctrl + shift + R, or by typing (run) in CLIPSIDE.

The user will now be presented with a series of questions. Simply answer all of the questions with “Y” or “y” for yes, and “N” or “n” for no until an estimated conclusion has been reached.

# The Computer Diagnostics Tree

You may use the following flowchart to see all of the different routes and outcomes that can be generated by Computer Diagnostics for testing purposes. These images have also been included in the Computer Diagnostics Documentation if you would prefer to rather view them as images outside of Microsoft Word.

## Flowchart 1

A close up of a logo

Description generated with high confidence

## Flowchart 2

A close up of a logo

Description generated with high confidence

## Flowchart 3

A close up of a logo

Description generated with high confidence