Activity: Exercise CCDD

Core Flight System (CFS) Command and Data Dictionary (CCDD) is a utility from NASA to enable management of command and telemetry data for CFS in a tabular format. This activity will use it in its GUI form but it can also be used as a command line application for integration in automated workflows and has extensible scripting capabilities.

# Install CCDD

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| 1 | Install Java runtime | debian@beaglebone:~/cFS$ sudo apt-get install default-jdk  <snip> |
| 2 | Install PostgreSQL | debian@beaglebone:~/cFS$ sudo apt install postgresql postgresql-contrib  <snip> |
| 3 | Create PostgrSQL user | debian@beaglebone:~$ sudo -u postgres createuser --interactive --pwprompt  [sudo] password for debian:temppwd  Enter name of role to add: debian  Enter password for new role:debian  Enter it again:debian  Shall the new role be a superuser? (y/n) y |
| 3 | Clone the CCDD Repository. | debian@beaglebone:~/cFS$ git submodule add <https://github.com/METECS/CCDD.git>  <snip> |
| 4 | Switch to a stable version of CCDD, v1.5.37 in this case. | debian@beaglebone:~/cFS/CCDD$ git checkout bf67db6822a41cf42890f56c629231d15a297435 |
| 5 | Start CCDD | debian@beaglebone:~/cFS/CCDD$ java -cp "CCDD.jar:CCDD\_lib/\*" CCDD.CcddMain |
| 5 | Using the File/Preferences dialog, configure the program paths, configure directories for each entry. |  |

# Tutorial

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| 1 | Perform the steps described in the CCDD\_Tutorial.pdf document. |  |

# Samples

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| 1 | Import and review some cFS tables found in the CCDD/tables directory. | debian@beaglebone:~/cFS/CCDD$ ls tables  cfe\_es\_startup.csv cFS\_CI\_lab\_tables.csv cFS\_LC\_tables.csv  cFE\_ES\_tables.csv cFS\_CI\_tables.csv cFS\_MD\_tables.csv  cFE\_EVS\_tables.csv cFS\_CS\_tables.csv cFS\_MM\_tables.csv  cFE\_SB\_tables.csv cFS\_DS\_tables.csv cFS\_SCH\_tables.csv  cFE\_TBL\_tables.csv cFS\_FM\_tables.csv cFS\_SC\_tables.csv  cFE\_TIME\_tables.csv cFS\_HK\_tables.csv cFS\_TO\_lab\_tables.csv  cFS\_CF\_tables.csv cFS\_HS\_tables.csv cFS\_TO\_tables.csv |