System Variables

UCF Development Notes v102922

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Requires StdIOChannelSystem(.so | dll) v112922 or later.

Description

System variables provide an alternative to hardcoded system configuration values.

The following types of variables are supported

- ♦ Global variables that are common to all profiles
- ♦ Local variables that are common to a specific profile group

Local variables will always override global variables of the same name.

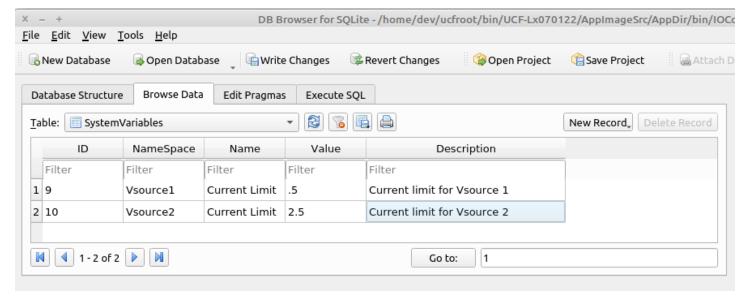
Data Locations

System variables are stored in sqlite databases.

- ♦ Local variables are stored in the 'SystemVariables' table in (./opt/<Profile Family>/ExtSystemIO.sdb)
- ♦ Global variables are stored in the 'SystemVariables' table in (./bin/<Release Name>/BaseSystemIO.sdb)

Configuring System Variables

System variables are created and updated using the sqlitebrowser utility.



Reading System Variables

The value(s) for system variables are read programmatically using the '*GetSystemVariable*(...)' functions defined in iStdIOChannelSystem.hpp

```
Example 1: bool status=TheSystem->GetSystemVariable(..);
          /* TheSystem is an iStdIOChannelSystem*
              1. status will be true if the variable is found, and false if not
Example 2:
       int TplModule::TestSystemVariables(CmdParam msg) {
           std::string ns, name, value, desc;
           char cvalue[256];
           memset(cvalue, 0, 256);
           TokenString params(msg,',');
           if (params.GetTokenCount() > 3) {
               params.GetToken(1, ns);
               params.GetToken(2, name);
               params.GetToken(3, value);
               params.GetToken(4, desc);
               TheSystem->GetSystemVariable(ns.c_str(), name.c_str(),cvalue,256);
           }
           return(1);
       }
```