

PiBox - Action Item #510

Add function[file:line] to prefix in pncLogger()

15 Mar 2016 20:19 - Hammel

Status:	Closed	Start date:	15 Mar 2016
Priority:	Immediate	Due date:	
Assignee:	Hammel	% Done:	90%
Category:	Libraries	Estimated time:	0.00 hour
Target version:	0.11.0		
Severity:	01 - Critical		
Description			
This can be done in libpibox by			
1. changing pncLogger() to _pncLogger()			
2. Adding const char*, const char *, int to the front of the args to _pncLogger()			
3. Adding a macro pncLogger() that wraps _pncLogger()			
4. Placing the gcc preprocessor defines <i>FUNCTION</i> , <i>FILE</i> and <i>LINE</i> in for the new args to _pncLogger()			
Then apps just need to be recompiled with the updated library to use this.			

Associated revisions

Revision f7cca623 - 20 Mar 2016 20:41 - Hammel

RM #510: Add function, file and line to logs automatically by wrapping pncLogger() with a macro.

Revision dea1e5d2 - 23 Mar 2016 16:09 - Hammel

RM #510: Added configurable timestamps and header to log messages.

Revision 99fe34a8 - 23 Mar 2016 16:09 - Hammel

RM #510: Added configurable timestamps.

Revision f142df11 - 23 Mar 2016 16:09 - Hammel

RM #510: Added unit test for log format given new configuration timestamps and headers.

History

#1 - 20 Mar 2016 17:15 - Hammel

- Status changed from New to In Progress

- % Done changed from 0 to 10

This will be a little bit of work. First, I need to change the pncLogger() call to a macro and the function to _pncLogger(), being sure to export that from the library. I need to build and test this with the daemons and apps on the dev host. I should also format the log so function is fixed in size and so is file, so the logs line up nicely. I should add a timestamp option to the library that can be set with pncLoggerInit() or with a new API function. It might be nice to have [pncLoggerInit\(\) be an overloaded macro](#).

After fixing libpibox I may need rebuild libpiboxnet since multiple apps depend on it.

Then I need to rebuild the apps to make sure they all work. Only those that depend on libpibox are a concern (re: non-of the metabuilds, only my PiBox daemons and apps).

I need to commit the libs first, then the apps. The apps shouldn't need any changes but will get them if they use *FUNCTION*, *FILE*, or *LINE* in any existing calls to pncLogger().

#2 - 20 Mar 2016 20:45 - Hammel

- % Done changed from 10 to 70

Recompiles was all that was required for libpnc and the apps. They all seem to be perfectly happy with that. I need to rebuild my local rpi tree with an updated libpibox so cross compiles will include that.

I want to look at adding config options to logging that allows:

1. timestamps
2. restricting function/file/line to a reduced and uniform length.

After that I can close this issue.

#3 - 23 Mar 2016 16:11 - Hammel

- Status changed from *In Progress* to *Closed*

- % Done changed from 70 to 90

Done. Configurable timestamp and header (fixed or full) added to logs along with set/get functions to configure them.

Tested, committed and pushed.

Closing issue.