

Kepler - Bug #5332

cr1k_d doesn't reliably connect to logger

03/01/2011 01:33 PM - Derik Barseghian

Status:	Resolved	Start date:	03/01/2011
Priority:	Normal	Due date:	
Assignee:	Derik Barseghian	% Done:	0%
Category:	sensor-view	Estimated time:	0.00 hour
Target version:	sensor-view-0.9.0	Spent time:	0.00 hour
Bugzilla-Id:	5332		
Description			
Fairly often cr1k_d fails to connect to the logger. I get output like:			
CR1K sample rate should be 30 second(s)			
><MAIN> Open Serial Port: /dev/ttyUSB0 Successfully!			
> <MAIN> Connecting to datalogger...			
[ERR-recvFrame] timeout (get data 0 bytes)			
> [ERR] cmdRING			
> Link error			
><MAIN> [ERR] fail to connect datalogger, please check cable			
> <MAIN> [ERR] Driver initialization failed			
> Serial port /dev/ttyUSB0 closed			
> cr1k_d exit			
or:			
CR1K sample rate should be 30 second(s)			
><MAIN> Open Serial Port: /dev/ttyUSB0 Successfully!			
> <MAIN> Connecting to datalogger...			
> [ERR] Link State error after cmdRING (09)			
> <MAIN> [ERR] fail to connect datalogger, please check cable			
><MAIN> [ERR] Driver initialization failed			
> Serial port /dev/ttyUSB0 closed			
-> cr1k_d exit			
I thought it might be dcd_mgr interfering, but that doesn't seem to be -- in span.sh, which launches both processes, I added a long sleep between them and cr1k_d still periodically fails.			
I'll add this to the list of questions/requests for ISI folks.			
If we're unable to find a better solution, an alternate is to detect the fail and retry N times.			
Related issues:			
Blocks Kepler - Bug #5341: Belkin f5u409 usb=>serial dongle periodically stop...		New	03/04/2011

History

#1 - 03/03/2011 02:39 PM - Derik Barseghian

Another failure example:

```
><MAIN> Open Serial Port: /dev/ttyUSB0 Successfully!  
> <MAIN> Connecting to datalogger...  
><MAIN> dump default or file...  
> cr file: /home/ubuntu/span.dan_mod/span-fep/conf/2sq110s.CR8  
> scan rate = 30 second(s)  
> [ERR] Response Code is not "complete(0x00)" (0E)  
><MAIN> [ERR] fail to dump default config file  
><MAIN> [ERR] Driver initialization failed  
> Serial port /dev/ttyUSB0 closed
```

#2 - 03/09/2011 04:25 PM - Derik Barseghian

Dan and I tracked the
[ERR] Response Code is not "complete(0x00)" (0E)

error down to a path parsing problem in pakbus_cmd.c -- the code can't handle a path with a period in it:

```
-----  
/* find extension and create dump file name*/  
ext = strstr(DCD_CONF+1, ".");  
  
dump_file = (char*) malloc( strlen(ext) + strlen("CPU:conf") + 1 );  
-----
```

It's unclear if the RING error is due to a separate issue.

#3 - 03/09/2011 04:39 PM - Derik Barseghian

Dan fixed the path parsing bug.
Dan and I both still get the RING errors though, so leaving this bug open.

#4 - 04/12/2011 11:48 AM - Derik Barseghian

Retry logic is working well, closing.

#5 - 03/27/2013 02:30 PM - Redmine Admin

Original Bugzilla ID was 5332