

Meeting minutes for Bergoz BCM-RF driver review

Ford, Christopher

Fri 11/11/2016 11:15 AM

To: Ford, Christopher <caf@slac.stanford.edu>;

Meeting date: 09Nov2016

Subject: Bergoz BCM-RF driver review

Attendees: Chris Ford, Garth Brown, Ernest Williams, Leonid Sapozhnikov, Matt Boyes, Mike Zelazny, Stephanie Allison

Bug report emailed by Bruce Hill:

> The only issue I saw was w/ 2 AI records at the end of devBergozBCM.db
> that may not even be useful. These records attempt to set a constant
> via the VAL field but I don't think that will work as VAL is listed as DCT = No
> in the AI wiki page. I'm not sure why the column is called DCT,
> but if No you can't configure it directly via the db file.
> However, you can set the INP field to the constant and it will set
> VAL the first time the record is processed,
> so also set field PINI="YES" to make sure it gets processed.

(Fixed on Nov 9)

"How did you select EPICS R3-14-12-4_1-1 ??????" Why not 3.15?

(A: Followed the pattern I was asked to follow for LinuxRT drivers. The StreamDevice driver is not tied to a very specific EPICS version. This is a general issue.)

No autosave? Assume "hardware is always right"? @init used to read values from hardware.

(A: Yes)

Recovery modes? USB disconnected Power-up order?

What happens if high speed interrupt going on?

(A: Vendor says 1 KHz events send for 1 MHz trigger. Up to 3 Bergoz BCM-RF could be attached)

How is the update rate determined?

Test it.

Not forcing readback. How do you know if readback is right? Get and set side by side (Yes).

If important like a power supply, set alarm if disagree.

Naming convention not followed in example application. All upper-case, "_RD" instead of ":Rd" etc.

Even if no autosave, should still have INFO field on logout.

USB device naming: What if move to a different port? What if more than 1 connected?

(A: Names are assigned /dev/ttyACM0, /dev/ttyACM1 in order of plug in)

Should devine EGU fields, and include them in display.

What happens if write too large of a value? Currently no DRVH and DRVL fields. No alarm fields.

Often useful to include a link to asyn record in GUI.