

## VME BPM - Bug #12805

### SY BPMs won't boot

05/27/2016 09:33 AM - John Diamond

<b>Status:</b>	Resolved	<b>Start date:</b>	05/27/2016
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	John Diamond	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	2.50 hours
<b>Description</b>			
See: <a href="https://www-bd.fnal.gov/Elog/?entryIDs=84467">https://www-bd.fnal.gov/Elog/?entryIDs=84467</a>			

### History

#### #1 - 05/27/2016 09:34 AM - John Diamond

Found that some symbols related to Charlie's ETF functions couldn't be located at startup:

```
ld < vxworks_boot/fe/rfiinst/testlib/VW_64/MVME5500/libtiming.out
Warning: module 0x3161410 holds reference to undefined symbol ETF_obj.
Warning: module 0x3161410 holds reference to undefined symbol ETF_load_start.
Warning: module 0x3161410 holds reference to undefined symbol ETF_obj_init.
Warning: module 0x3161410 holds reference to undefined symbol ETF_unload.
ld(): error loading file (errno = 0xe0005).
value = 0 = 0x0
Booting incomplete->
```

#### #2 - 05/27/2016 10:34 AM - John Diamond

Looks like the P1 line startup script was missing this:

```
ld < vxworks_boot/v6.4/module/mv5500/ucd/evttrgfnctdev-latest.o
```

#### #3 - 05/27/2016 02:19 PM - John Diamond

- Status changed from Assigned to Resolved

- % Done changed from 0 to 100

Found that F1 and F3 were crashing during digitizer initialization. Found that we needed to build against the latest version of adinsthw and fixed a bug related to the a16BaseGet() and a32BaseGet() methods in SY120BPMADC. All SY BPM nodes are booting now with the exception of F4 which seems to have a bad CPU board. Will open another ticket for that.