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2009

2007

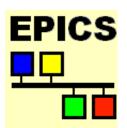
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## **Experimental**

# Physics and Industrial Control System

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Subject: Re: CAMAC & Linux question

From: Kazuro FURUKAWA < kazuro furukawa@kek.jp>

*To*: "Paul Sichta" < <u>PSichta@pppl.gov</u>>

Cc: tech-talk@aps.anl.gov, Kazuro FURUKAWA

< kazuro.furukawa@kek.jp>

Date: Mon, 21 May 2007 14:29:54 +0900

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Dear Paul,

2015 >>> On Fri, 18 May 2007 08:29:05 JST, "Paul Sichta"

2014 <PSichta@pppl.gov> wrote;

> Fellow CAMAC'rs,

> We're considering moving our CAMAC highways from VxWorks/VME to

2012 > Linux/PCI.

> Would the folks who use CAMAC via Linux let me know their

\_\_\_\_\_ hardware

2010 > configuration (mfgr/model of PCI board, SCSI interface), Linux

distro,

2008 > driver

> software, when they began using it, etc... . Hytec has

something for

2006 > this

> configuration, but I was wondering if there were alternatives.

2004 We still keep a lot of CAMAC resources at KEKB and KEK-Linac, and

2003 we use

CC/Net from Toyo Japan

2002 ECC1365 from Hytec

2001 VSD2992 from Hytec

First two provide the direct Ethernet connections. Since we had difficulties connecting from multiple unix hosts to ECC1365's, we limit accesses only from one host. We have to run EPICS IOC/

Gateway on that unix host.

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Because of the above reasons, we also introduced CC/Net (when one of ECC1365 was broken). It contains a standard PC inside the standard crate controller which should be situated in CAMAC stations 24 and 25. If you need EPICS, you can run EPICS on it, as it runs standard Linux like FedoraCore or Debian. If you need CAMAC performance, you can execute CAMAC transaction every micro-second (1.04 micro-sec). Since the CAMAC cycle is one micro-second, it is almost the limit. To my understanding the price is around \$5000 or less.

It was developed by the detector-online group at KEK, and several accelerator projects around KEK also employ it. Some of the links are

<http://www-online.kek.jp/~yasu/Conference/rt2003/CAMAC/RT2003-CAMAC.pdf>

<http://www-online.kek.jp/~inoue/Parallel-CAMAC/>

<http://www-acc.kek.jp/EPICS\_Gr/EPICSAsia2004/PPT/Dec10/Dec10-Araki-LinuxRFGTB.pdf>

> Thanks,

- > --
- > Paul Sichta
- > Princeton Plasma Physics Laboratory
- > 609-243-3477

Cheers, Kazuro.

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Linac&KEKB, High Energy Accelerator Research Organization (KEK), Japan

Telephone: +81-29-864-5200 x4316, Facsimile: +81-29-864-0321

#### References:

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