Field test of the new driver software for injector pulsed magnets

for Injector Linac Groups
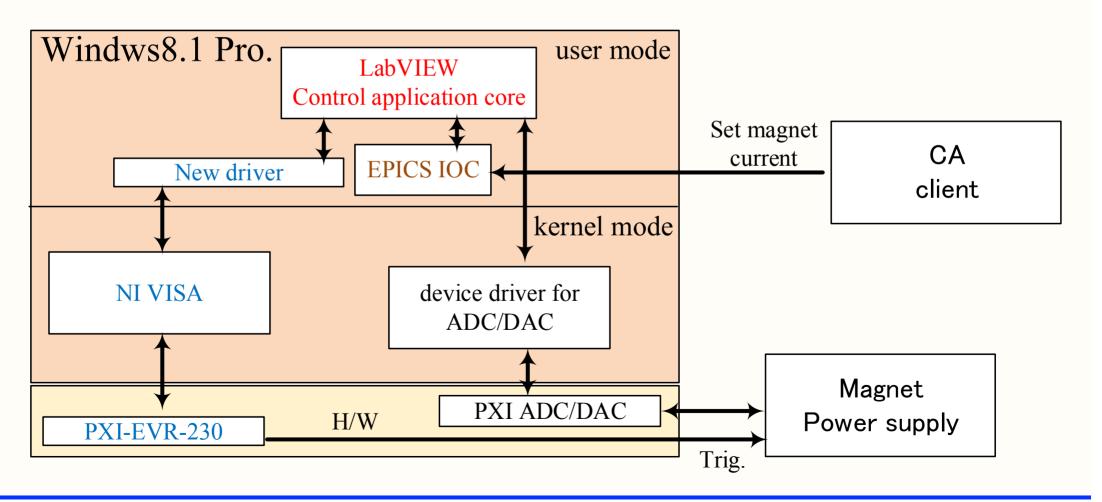
<http://www-linac.kek.jp/linac/>

New software structure under development

NI VISA based EVR driver (under development) is currently promising candidate. (w/o EPICS IOC for EVR control)
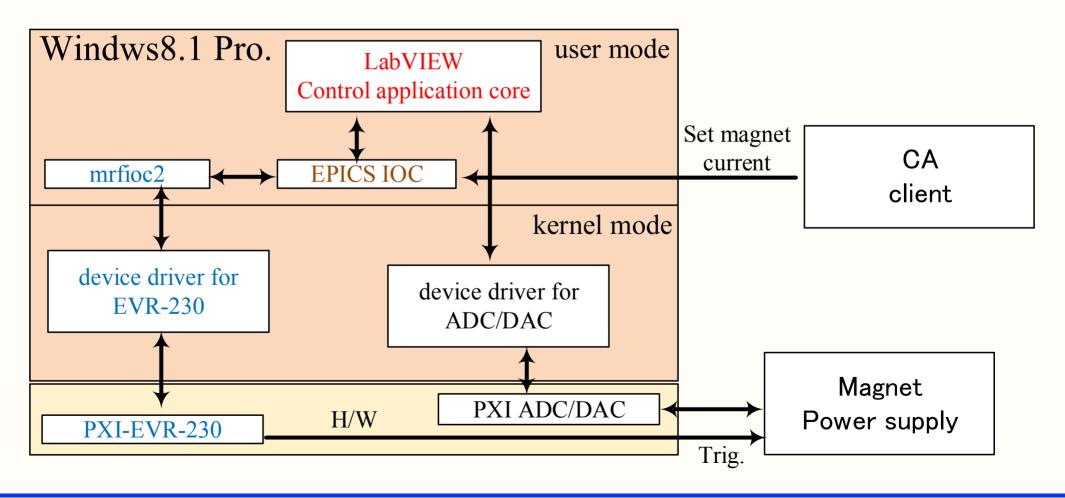
Y.Enomoto, M.Satoh et al.

Present software structure

In some events, LabVIEW/EPICS IOC communication is delayed or failed.

Field test on maintenance day

◆ **Development and basic tests underway**

- ❖ **1 error within 24-hour, much less than present version**
  - ☆ **Several error sources found even under the present environment**
- ❖ **needs more tests under operational environment**

◆ **Tests without beam during Apr.9 daytime**

◆ **Tests with beam during Apr.9 linac machine study**

◆ **Engineers arranged**

◆ **Replacement needs 2 hours**

- ❖ **Not only a single file, but move from subversion to git, etc.**

◆ **May continue with the new software afterwards**

- ❖ **Background information**
  - ☆ **https://www-linac.kek.jp/linac-com/pulsed-magnet/**

Mt. Tsukuba

Thank you

SuperKEKB
dual rings

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Linac