

## **OLD WINE IN NEW BOTTLES-THE SPEAR CONTROL SYSTEM UPGRADE**

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The control systems for the SPEAR storage ring and injector were designed about two decades ago and are heavily dependent on the OpenVMS operating system and CAMAC. The realtime data reside in shared memory on a single computer for each control system. In order to use more modern client tools while preserving our investment in the hardware and software, we are installing an EPICS Portable Channel Access Server (CAS) on the control computers. The CAS will serve the existing realtime data as EPICS Process Variables and allow us to use client tools like MEDM and MATLAB running on other workstations to more easily build new operator interfaces and develop accelerator physics programs. The CAS will also provide the infrastructure to distribute future realtime hardware with EPICS Input Output Controllers.